

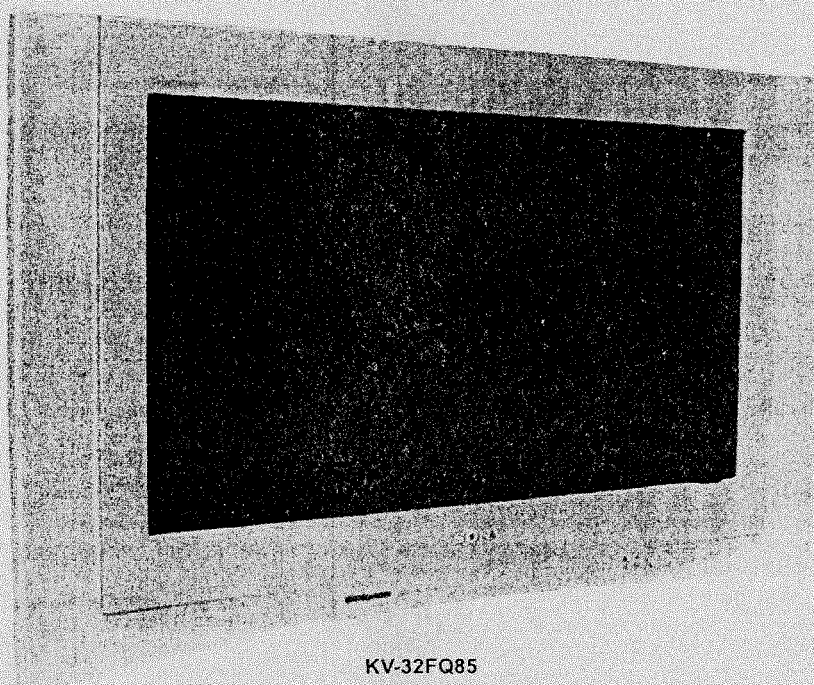
*Self Diagnosis*  
Supported model

# SERVICE MANUAL

## AE-6BAD/Y CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO	MODEL	COMMANDER	DEST	CHASSIS NO
<b>KV-32FQ85B</b>	RM-942	FR	SCC-Q83R-A	<b>KV-32FQ85E</b>	RM-942	ESP	SCC-Q81U-A

## FD Trinitron



KV-32FQ85



RM-942

TRINITRON® COLOR TV  
**SONY®**

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### CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

### WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

### SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

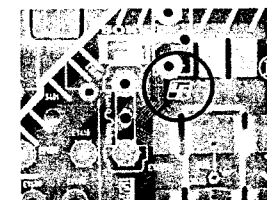
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE Δ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

## CAUTION

### Lead Free Soldered Boards

The circuit boards listed below [Table 1] used in these models may have been processed using Lead Free Solder. The boards are identified by the LF logo located close to the board designation e.g. F1, H1 etc [ see examples ]. The servicing of these boards requires special precautions to be taken as outlined below.

example 1



example 2



Table 1

Board	Function
A	Audio, Deflection, Tuner, Regulators, Interface
B	Backend, Scanrate, LVDSA, Interface
C	R, G, B Out
D	Deflection
F1	Power Switch/Fuse/SIRCS/Standby LED
G	Power Supply
H1	Front AV Input/Headphone and Control Switches
J	AV Scart I/O Switching and Sockets
VM	Velocity Modulation

It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints. Lead Free Solder is available under the following part numbers :

Partnumber	Diameter	Remarks
7-640-005-19	0.3mm	0.25kg
7-640-005-20	0.4mm	0.50kg
7-640-005-21	0.5mm	0.50kg
7-640-005-22	0.6mm	0.25kg
7-640-005-23	0.8mm	1.00kg
7-640-005-24	1.0mm	1.00kg
7-640-005-25	1.2mm	1.00kg
7-640-005-26	1.6mm	1.00kg

Due to the higher melting point of Lead Free Solder the soldering iron tip temperature needs to be set to 370 degrees centigrade. This requires soldering equipment capable of accurate temperature control coupled with a good heat recovery characteristics.

For more information on the use of Lead Free Solder, please refer to <http://www.sony-training.com>

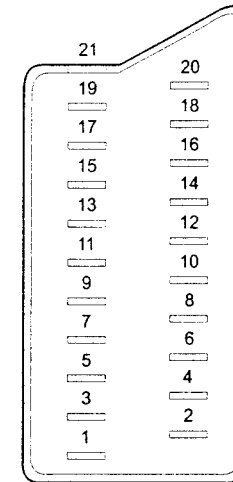


ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
B	B/G/H, D/K, I, L	GERMAN/NICAM Stereo	VHF : E2-E12, R1-R12, S01-S03, F02-F10, B-Q UHF : E21-E69, F21-F69, B21-B69, R21-R69 CABLE TV : S01-S20 HYPER : S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
E	B/G/H, D/K	GERMAN/NICAM Stereo	VHF : E2-E12, R1-R12, S01-S03 UHF : E21-E69, R21-R69 CABLE TV : S01-S20 HYPER : S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

Picture Tube	Flat Display FD Trinitron Approx 82 cm (32 inches) (Approx 76 cm picture measured diagonally)	Sound output	
		Right and Left speaker	2x20W (Music Power) 2x10W (RMS)
		Sub Woofer	1x30W (Music Power) 1x15W (RMS)
Input/Output Terminals [REAR]		General Specifications	
1: 21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.	Power Requirements	220 - 240V
		Power Consumption	135W
2: 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals. (Monitor Out)	Dimensions	Approx 910 x 586 x 586mm
		Weight	Approx 64kg
3: 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for S Video. Outputs of TV Video and Audio signals. (selectable)	Supplied Accessories	RM-942 Remote Commander (1) IEC designated R6 battery (2)
Phono Jacks	Output Connectors variable for Audio Signals	Other Features	100 Hz picture, DNR, Auto Noise Reduction, PAP, Teletext, Smartlink, BBE, Virtual Dolby
Input/Output Terminals [FRONT]		Remote Control System : Infrared Control	
Headphone Jack	stereo mini jack	Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
Audio inputs	phono jacks		
Video inputs	phono jacks		
S Video input	4 pin DIN		
Design and specifications are subject to change without notice.			

Item	Model Name	KV-32FQ85B	KV-32FQ85E
Pal Comb		OFF	OFF
PIP		OFF	OFF
RGB Priority		ON	ON
Woofer Box		ON	ON
Scart 1		ON	ON
Scart 2		ON	ON
Scart 3		ON	ON
Front in (4)		ON	ON
Projector		OFF	OFF
Norm B/G		ON	ON
Norm I		ON	OFF
Norm D/K		ON	ON
Norm AUS		OFF	OFF
Norm L		ON	OFF
Norm SAT		OFF	OFF
Norm M		OFF	OFF
Teletext		ON	ON
Nicam Stereo		ON	ON

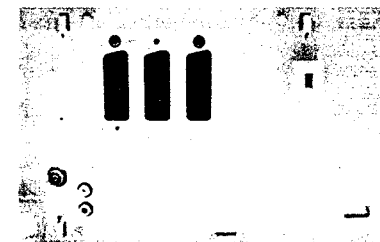
21 pin connector



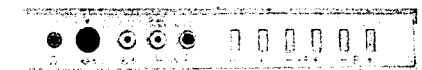
Pin No	1	2	3	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
2	○	○	○	Audio input B (right)	Standard level : 0.5V rms Output impedance : More than 10kohm*
3	○	○	○	Audio output A (left)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedance : More than 10kohm*
7	○	●	●	Blue input	0.7 +/- 3dB, 75 ohms positive
8	○	○	○	Function select (AV control)	High state (9.5-12V) : Part mode Low state (0-2V) : TV mode input impedance : More than 10K ohms input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	-	-	Red input	0.7 +/- 3dB, 75 ohms, positive
	-	○	○	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedance : 75 ohms
17	○	○	○	Ground (video output)	
18	○	○	○	Ground (video input)	
19	○	○	○	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	○	-	-	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
	-	○	○	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	○	○	○	Common ground (plug, shield)	

○ Connected ● Not Connected (open) \* at 20Hz - 20kHz

Rear Connection Panel



Front Connection Panel



S-Video socket

S Video socket pin configuration		
Pin No	Signal	Signal Level
1	Ground	-
2	Ground	-
3	Y (S signal) input	1V +/- 3dB 75ohm, positive Sync. 0.3V -3 +10dB
4	C (S signal) input	0.3V +/- 3dB 75ohm, positive Sync.

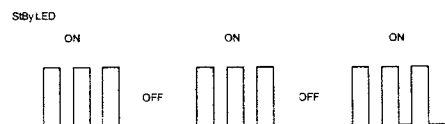
## AE-6BAD/Y SELF DIAGNOSTIC SOFTWARE

The identification of errors within the AE-6BAD/Y chassis is triggered in one of two ways :- 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1, non fatal errors are reported using this method. Each time the software detects an error it is stored within the NVM. See Table 2.

Table 1

Error Message	LED Code
No error	00
Reserved	01
OCP ( Over Current Protection )	02
Over Voltage Protection	03
No Vertical Sync	04
IKR Error at power on	05
IIC bus clock and/or data lines low at power on	06
NVM no IIC bus acknowledge at power on	07
Horizontal Protection	08
Tuner no acknowledge at power on	09
Sound Processor Error	10
Reserved	11
Scanrate Error	12
DAC Error	13
Backend Error	14
Dynamic Convergence Error	15
PIP Error	16

Flash Timing Example : e.g. error number 3



How to enter into Table 2

1. Turn on the main power switch of the TV set.
2. Program Remote Commander for Operation in Service Mode. [See Page 21].
3. Press 'AUX/VIDEO' 'AUX/VIDEO' > 'MENU' on the Remote Commander.
4. Using the Remote Commander, Scroll to the 'Error' item using the down arrow key, then press the right arrow key.
5. The following table will be displayed indicating the error count.

Table 2



Error monitor		
<b>WORKING TIME:</b>	<b>(Hours:Minutes)</b>	82:33
<b>Error counters:</b>		
E02: OCP		0
E03: OVP		0
E04: NO V SYNC		0
E05: IKR		0
E06: IIC		0
E07: NVM		0
E08: H PROT		0
E09: TUNER		0
E10: SOUND		0
E11: 9 VOLTS		0
E12: SCANRATE		0
E13: 3DCOMB		0
E14: BACKEND		0
E15: DYNCON		0
E16: HIGH VOLTAGE		0
E17: AVSWITCH		0
E18: CHROMA DEC		0
E19: FRCA		0
E20: PJ ENG		0
E21: DAC		0
E24: SPEAKER PROT		0
E25: MEMORY STICK		0
Select: ▲ ▼ Previous Menu: ◀		
















**Note:** To clear the error count data press '80' on the Remote commander.



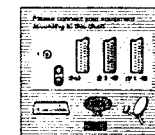
The operating instructions mentioned here are partial abstracts from the 'Operating Instruction Manual'. The page numbers of the 'Operating Instruction Manual' remain as in the manual.

## Switching On the TV and Automatically Tuning

- ① The first time you switch on your TV, a sequence of menu screens appear on the TV enabling you to: 1) choose the language of the menu screen 2) Choose the country in which you are going to operate the TV. 3) adjust the picture slant, 4) check how to connect optional equipment to your TV, 5) search and store all available channels (TV Broadcast) and 6) change the order in which the channels (TV Broadcast) appear on the screen. However, if you need to change any of these settings at a later date, you can do that by selecting the appropriate option in the  (Set Up menu) or by pressing the Auto Start Up Button  on the TV set.

- 1 Connect the TV plug to the mains socket (220-240V AC, 50Hz). The first time that the TV set is connected, it is usually turned on. If the TV is off, press the  on/off button on the TV set to turn on the TV.  
The first time you switch on the TV, a Language menu displays automatically on the TV screen.  

- 2 Press the , ,  or  buttons on the remote control to select your language, then press the OK button to confirm your selection. From now on all the menus will appear in your chosen language.  

- 3 The Country menu appears automatically. Press the  or  button to select the country in which you are using the TV. Press the OK button to confirm your selection.  
  
① If the country in which you want to use the TV set does not appear in the list, select "off" instead of a country.  
• To avoid wrong teletext characters for cyrillic languages we recommend selecting Russia country if your own country does not appear in the list.
- 4 Because of the earth's magnetism, the picture might slant. The Picture Rotation menu allows you to correct the picture slant if it is necessary.  
  
a) If it is not necessary, press OK to select Not necessary.  
b) If it is necessary, press  or  to select Adjust now, then press OK and correct any slant of the picture between -5 and +5 by pressing  or . Finally press OK to store.

- 5 A diagram will appear showing you how to connect a wide range of equipment to your TV set. Follow the instructions and finally press the OK button to remove the picture and continue the automatic process.





- ⚠ After the automatic tuning process has finished and the optional equipment has been connected at this stage, we recommend you follow the instructions explained on the section "Connection Guide" on page 15 to get the optimum settings related with the optional equipment.

- 6 The Auto Tuning menu appears on the screen. Press the OK button to select Yes.



- 7 The TV starts to automatically search and store all available broadcast channels for you.

- ⚠ This procedure could take some minutes. Please be patient and do not press any buttons, otherwise automatic tuning will not be completed.

- ① In some countries the TV Broadcaster installs the channels automatically (ACI system). In this case, the TV Broadcaster sends a menu in which you can select your city by pressing the  or  button and OK to store the channels.

- ⚠ If no channels were found during the auto tune process, a message appears automatically on the screen asking you to connect the aerial. Check the aerial connection (refer to page 7). Press the OK button to restart the auto tuning process.








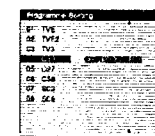
- 8 After all available channels are captured and stored, the Programme Sorting menu automatically appears on the screen enabling you to change the order in which the channels are stored.




- a) If you wish to keep the broadcast channels in the tuned order, go to step 9.

- b) If you wish to store the channels in a different order:

- 1 Press the  or  button to select the programme number with the channel (TV Broadcast) you wish to move. Press the  button.
- 2 Press the  or  button to select the new programme number position for your selected channel (TV Broadcast). Press the OK button to store.
- 3 Repeat steps b)1 and b)2 if you wish to change the order of the other channels.



- 9 Press the MENU button to remove the menu from the screen

 Your TV is now ready for use

continued...

## Introducing and Using the Menu System

**1** Your TV uses an On-Screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:

### 1 To switch on the menu screens:

Press the MENU button to switch the first level menu on.



### 2 To navigate through the menus:

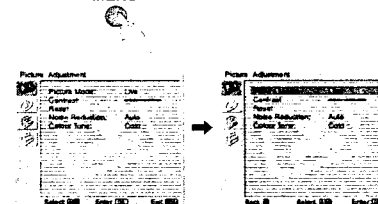
- To highlight and select the desired menu or option, press  $\blacktriangle$  or  $\blacktriangledown$ .
- To enter the selected menu or option, press OK or  $\blacklozenge$ .
- To return to the last menu or option, press OK or  $\blacklozenge$ .
- To alter the settings of your selected option, press  $\blacktriangle$ ,  $\blacklozenge$ ,  $\blacktriangledown$  or  $\blacklozenge$ .
- To confirm and store your selection, press OK.

### 3 To switch off the menu screens:

Press the MENU button to remove the menu from the screen.

## The Picture Adjustment Menu

### MENU



**1** The "Picture Adjustment" menu allows you to alter the picture settings.

To do this:  
Press the MENU button and then press OK to enter this menu. Next press  $\blacktriangle$  or  $\blacktriangledown$  to select the desired option and press OK. Finally read below how to operate into each option.

**Picture Mode** This option allows you to customise the Picture Mode based on the programme you are watching. After selecting this option press OK. Next press repeatedly  $\blacktriangle$  or  $\blacktriangledown$  to select:

**Personal** (for individual settings).

**Live** (for live broadcast programmes, DVD and Digital Set Top Box receivers).

**Movie** (for films).

Once you have selected your desired option, press OK to store.

**1** "Brightness", "Colour" and "Sharpness" level of "Live" and "Movie" mode are fixed on the factory to get the best picture quality.

**Contrast** Press  $\blacktriangle$  or  $\blacktriangledown$  to reduce or enhance picture contrast. Next press OK to store.

**Brightness** Press  $\blacktriangle$  or  $\blacktriangledown$  to darken or brighten the picture. Next press OK to store.

**⚠** This option only appears and only can be altered if "Picture Mode" is set to "Personal".

**Colour** Press  $\blacktriangle$  or  $\blacktriangledown$  to decrease or to increase color intensity. Next press OK to store.

**⚠** This option only appears and only can be altered if "Picture Mode" is set to "Personal".

**Hue** Press  $\blacktriangle$  or  $\blacktriangledown$  to decrease or to increase the green tones. Next press OK to store.

**⚠** This option only appears for NTSC signal (e.g. USA video tapes).

**Sharpness** Press  $\blacktriangle$  or  $\blacktriangledown$  to soften or to sharpen the picture. Next press OK to store.

**⚠** This option only appears and only can be altered if "Picture Mode" is set to "Personal".

**Reset** Press OK to reset the picture to the factory preset levels.

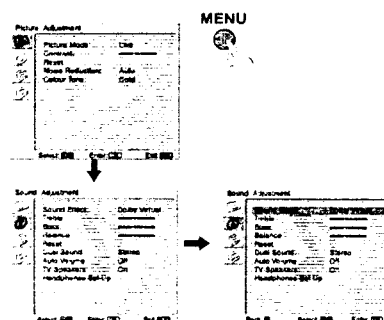
**Noise Reduction** This option is set to Auto to automatically reduce the snowy picture visible in the broadcast signal. However, it can be modified by pressing  $\blacktriangle$  or  $\blacktriangledown$  to select Off, Low, Mid or High. Finally press OK to store.

**Colour Tone** This option allows you to alter the tint of the picture. After selecting this option press  $\blacklozenge$ . Next press repeatedly  $\blacktriangle$  or  $\blacktriangledown$  to select: Warm (gives the white colours a red tint), Normal (gives the white colours a neutral tint), Cold (gives the white colours a blue tint). Next press OK to store.





## The Sound Adjustment Menu



**i** The "Sound Adjustment" menu allows you to alter the sound settings.

To do this:  
Press the MENU button and press  $\downarrow$  to select  $\text{MENU}$ , then press OK to enter this menu. Next press  $\downarrow$  or  $\uparrow$  to select the desired option and press OK. Finally read below how to operate into each option.



<b>Sound Effect</b>	<p>This option allows you to customise the Sound Effect. After selecting this option press OK. Next press repeatedly <math>\downarrow</math> or <math>\uparrow</math> to select:</p> <ul style="list-style-type: none"> <li><b>Off</b> (Flat response).</li> <li><b>Natural</b> (Enhances clarity, detail and presence of sound by using "BBE High Definition Sound system"*).</li> <li><b>Dynamic</b> ("BBE High Definition Sound system"*) intensifies clarity and presence of sound for better intelligibility and musical realism).</li> <li><b>Dolby**</b> (Dolby Virtual, simulates the sound effect of "Dolby Surround Pro Logic").</li> </ul> <p>Once you have selected your desired option, press OK to store.</p>
<b>Treble</b>	Press $\downarrow$ or $\uparrow$ to decrease higher-frequency sounds. Next press OK to store.
<b>Bass</b>	Press $\downarrow$ or $\uparrow$ to decrease or to increase the lower-frequency sounds. Next press OK to store.
<b>Balance</b>	Press $\downarrow$ or $\uparrow$ to emphasise the left or the right speaker. Next press OK to store.
<b>Reset</b>	Press OK to reset the sound to the factory preset levels. Next press OK to store.
<b>Dual Sound</b>	<ul style="list-style-type: none"> <li>For a Stereo broadcast: Press <math>\downarrow</math> or <math>\uparrow</math> to select Stereo or Mono. Next press OK to store.</li> <li>For a bilingual broadcast: Press <math>\downarrow</math> or <math>\uparrow</math> to select Mono (for mono channel if available), A (for channel 1) or B (for channel 2). Next press OK to store.</li> </ul>

**Auto Volume** Press  $\downarrow$  or  $\uparrow$  to select On (the volume level of the channels will stay the same, independent of the broadcast signal, e.g. in the case of advertisements) or Off (the volume level changes according to the broadcast signal). Next press OK to store.

**A** If you select "Dolby Virtual" on the "Sound Effect" option, the "Auto Volume" option will automatically be switched to "Off" and vice versa.

**TV Speakers** This option allows you to select if you want to listen the TV from the TV speakers or from an external amplifier connected to the audio outputs on the rear of the TV.

After selecting this option, press OK. Next press repeatedly  $\downarrow$  or  $\uparrow$  to select:

- On** (to listen the TV from the TV set speakers).
- One time off** (to listen to the TV from the external amplifier only one time. By using this option, any time the TV is turned off/on, it returns to the default setting "On").
- Permanent off** (to always listen to the TV from external amplifier).

Once you have selected your desired option, press OK to store.

**i** If you have selected "One time off" or "Permanent off", the volume of the external equipment can also be altered by pressing the  $\triangleleft$  +/- buttons of the remote control. When the volume buttons are pressed, the symbol  $\otimes$  will appear indicating that the volume you are altering is not the volume of the TV set speakers, it is from the external equipment.



<b>Headphones Set Up</b>	<p>This option allows you to customise the headphones volume and the PAP settings (refer to page 19 for details on PAP).</p> <p>After selecting this option press OK. Next press repeatedly <math>\downarrow</math> or <math>\uparrow</math> to select:</p> <ul style="list-style-type: none"> <li><b>volume</b> Press <math>\downarrow</math> or <math>\uparrow</math> to decrease or increase the volume level from the headphones.</li> <li><b>Dual Sound</b> <ul style="list-style-type: none"> <li>For a Stereo broadcast: Press <math>\downarrow</math> or <math>\uparrow</math> to select Stereo or Mono</li> <li>For a bilingual broadcast: Press <math>\downarrow</math> or <math>\uparrow</math> to select mono (for mono channel if available), A (for channel 1) or B (for channel 2).</li> </ul> </li> <li><b>PAP Sound</b> Select Frame if you want to listen to the active screen (framed) of the PAP screen (see page 19), select Left picture if you want to listen to the left screen or select Right picture if you want to listen to the right screen.</li> </ul>
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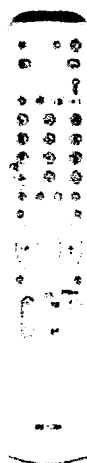
**i** \* The "BBE High Definition Sound system" is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word "BBE" and BBE Symbol are trademarks of BBE Sound, Inc.

\*\* This TV has been designed to create surround sound effect by simulating the sound of four speakers with two speakers, when the broadcast audio signal is Dolby Surround encoded. The sound effect can also be improved by connecting a suitable external amplifier (for details refer to page 27).

\*\* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol  $\text{DD}$  are trademarks of Dolby Laboratories.

## PAP (PICTURE AND PICTURE)

**i** PAP divides the screen into two to watch two pictures in format 4:3 simultaneously.



### Switching PAP on and off

1 Press **□** to display PAP.

**i** One of the screens will be framed to indicate that this is the active screen. It means that when you want to select the PAP source, you will be doing it in the active screen.

2 Press **□** again to remove PAP.

**i** On the screen appears a banner guiding you how to operate PAP. This banner will disappear after some seconds but it always can be displayed again by pressing the **⏏** button.



### Changing the active screen

**A** This is only possible if Media Selector is set to TV.

To change the active screen (framed), press the **◀** or **▶** buttons.

### Selecting PAP source

1 Selecting a TV channel:

Press the **◀** button to select the left screen as the active screen. Next press the number buttons or **PROG +/-** to select a TV channel.

**A** Video input signals can not be displayed on the left screen.

2 Selecting an input source:

Press the **▶** button to select the right screen as the active screen. Next press repeatedly the **⏏** button to watch the input signal of a connected equipment onto the TV right screen. For more details on which input symbol you want to choose, please see section "Viewing pictures from equipment connected to the TV" on page 27.

**A** RF signal (TV broadcast channels) can not be displayed on the right screen.

### Selecting the sound

The sound of the active screen (framed) always comes from the TV set loudspeakers. Besides that, you can listen to the active screen as well as the non active screen via headphones.

To do this:

With the PAP switched on, refer to the section "The Sound Adjustment Menu", select "Headphones Set Up" and set the option "PAP Sound" according your preference. For details see page 13.

## Teletext

**i** Teletext is an information service transmitted by most TV stations. The index page of the teletext service (usually page 100) gives you information on how to use the service. To operate teletext, use the remote control buttons as indicated below.

**A** Teletext errors may occur if you use a channel (TV Broadcast) with a weak signal



### To switch on Teletext :

1 Select the broadcast channel which carries the teletext service you wish to view.

2 Press the **⏏** button one time to enter Picture and Text (P&T) mode. The screen is divided into two with the Text display on the left and the TV channel in the right corner.

3 If you wish to view the Text in full screen mode, press the **⏏** button a second time.



### To select a Teletext page:

Input 3 digits for the page number, using the numbered buttons.

*If you make a mistake, retype the correct page number.*

*If the counter on the screen continues searching, it is because the page is not available. If this is the case, input another page number.*

### To access the next or preceding page:

Press **PROG + (⏏)** or **PROG - (⏏)**.

### To freeze a teletext page:

Press **⏏/⏏**. Press it again to cancel the freeze.

### To reveal concealed information (e.g: answer to a quiz):

Press **⏏/⏏**. Press it again to conceal the information.

### To select a sub page:

A teletext page may consist of several sub pages. In this case, one or more arrows appear next to the page number and an information box is displayed at the bottom of the screen showing the number of sub pages contained on this page. As soon as sub pages are available, they start to automatically run. If you want to stop the show and select your desired sub page, press repeatedly **◀** or **▶**.

### To Switch Off Teletext:

Press **□**.

### Fastext

**i** Fastext service lets you access Teletext pages with one button push.

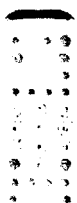
When you are in Teletext mode and Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the appropriate coloured button (red, green, yellow or blue) to access the page corresponding to your menu choice.



## Remote Control Configuration for VCR or DVD

**1** In it's default condition this remote control will operate the basic functions of this Sony TV. Sony DVDs and most Sony VCRs. To control VCRs and DVDs of other manufacturers (and some Sony VCR models), the remote control needs to be configured.

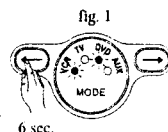
fig. 2



To do this:

- 1** Before you start, look up the 3 digit code for your brand of DVD or VCR from the list below. On those brands that have more than one code, enter the first code number.
- Sony will endeavour to update the software according to market changes. Therefore, please refer to code table included with the remote control for latest code set.
- A small label is added inside the battery door to allow you to record your brand codes.

**1** Press and hold the **←** button of the remote control for approximately 6 seconds until the green DVD and VCR light of the Media Selector starts flashing (see fig. 1).



**2** While the VCR and DVD lights are flashing, enter all three digits of the code for your brand of VCR or DVD (see the list below) using the number buttons on the remote control (see fig. 2).

**1** If your selected code is entered correctly, the green light VCR or DVD (according to your selection) will be lit momentarily (see fig. 3), otherwise repeat all the above steps.

fig. 3



**3** Turn on your VCR or DVD and check that the main functions work.

**1** If your device is not working or some of the functions do not work please check that you entered the correct code set or try the next code listed against the brand.

Not all brands are covered and not all models of every brand may be covered.

**4** Always remember to press the **←** or **→** button until the green light illuminates according to the equipment you want to operate with this remote control: VCR, TV or DVD. Refer to pages 28 - 29 on how to operate the AUX mode.

VCR Brand List		DVD Brand List	
Brand	Code	Brand	Code
SONY (VHS)	301, 302, 303, 308, 309, 362	SONY	001, 029, 030, 036, 037, 038, 039, 040, 041, 042, 043, 044, 053, 054, 055
SONY (BETA)	303, 307, 310	AIWA	021
SONY (DV)	304, 305, 306	AKAI	032
AIWA	325, 331, 351	DENON	018, 027, 020, 002
AKAI	326, 329, 330	GRUNDIG	009, 028, 023, 024, 016, 003
DAEWOO	342, 341	HITACHI	025, 026, 015, 004, 035
GRUNDIG	358, 355, 360, 361, 320, 351, 366	JVC	006, 017
HITACHI	327, 333, 334	KENWOOD	008
JVC	314, 315, 322, 344, 352, 353, 354, 348, 349	LG	015, 014, 034
LG	332, 338	LOEWE	009, 028, 023, 024, 016, 003
LOEWE	358, 355, 360, 361, 320, 351	MATSUI	013, 016
MATSUI	356, 357	ONKYO	022, 033
ORION	328	PANASONIC	018, 027, 020, 002, 045, 046, 047
PANASONIC	321, 323	PHILIPS	009, 028, 023, 024, 016, 003, 031
PHILIPS	311, 312, 313, 316, 317, 318, 358, 359, 363, 364	PIONEER	004, 050, 051, 052
SAMSUNG	339, 340, 341, 345	SAMSUNG	011, 014
SANYO	335, 336	SANYO	007
SHARP	324	SHARP	019, 027
THOMSON	319, 350, 365	THOMSON	012
TOSHIBA	337	TOSHIBA	003, 048, 049
		YAMAHA	018, 027, 020, 002

## Technical Specifications

TV system:  
Depending on your country  
selection:  
B/G/H, D/K, L, I

Colour system:  
PAL  
SECAM, NTSC 3.58, 4.43 (only  
Video In)

Channel Coverage:  
VHF: E2-E12  
UHF: E21-E69  
CATV: S1-S20  
HYPER: S21-S41  
D/K: R1-R12, R21-R69

Picture Tube:  
Flat Display FD Trinitron WIDE:  
32" (approx. 82 cm. measured  
diagonally)

Rear Terminals

• AV1  
1/2 1  
21-pin scart connector  
(CENELEC standard)  
including audio/video input,  
RGB input, TV audio/video  
output.

• AV2  
2/2 2  
21-pin Scart connector  
(CENELEC standard)  
including audio / video input,  
RGB input, monitor audio/video  
output.

• AV3  
3/3 3  
21-pin Scart connector  
(CENELEC standard)  
including audio / video input,  
S video input,  
selectable audio / video output  
and SmartLink interface.

• audio outputs (Left/Right)  
- phono jacks

Front Terminals

• 4 S Video input - 4 pin  
DIN  
• 4 video input - phono jack  
• 4 audio input - phono  
jacks  
• headphones jack  
• "Memory Stick" Slot

Sound Output:  
2 x 20 W (music power)  
2 x 10 W (RMS)  
Woofer:  
30 W (music power)  
15 W (RMS)

Power Consumption:  
135 W

Standby Power Consumption:  
0.5 W

Dimensions (w x h x d) :  
approx. 910 x 586 x 586 mm.

Weight:  
approx. 64 Kg.

Accessories supplied:  
• 1 Remote Control (RM-942)  
• 2 Batteries (IEC designated,  
AA size)


Other features:  
• 100 Hz picture, Digital Plus.  
• Teletext, Fastext, TOPtext.  
• NextTVView.  
• SmartLink.  
• TV system autodetection.  
• Dolby Virtual.  
• BBE Digital.  
• NICAM.  
• PAP.  
• ACI (Auto Channel  
Installation).  
• "Memory Stick" (reader).  
• Auto Format.






Optional accessories:  
• Stand especially designed for this  
TV (SU-32FQ3).

Design and specifications are subject to change without notice.










This instruction manual has been printed on:  
Ecological Paper - Totally Chlorine Free


## Troubleshooting

 Here are some simple solutions to problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark) and no sound.	<ul style="list-style-type: none"> <li>• Check the aerial connection.</li> <li>• Plug the TV in and press the  button on the front of the TV.</li> <li>• If the standby indicator  is on, press TV  button on the remote control.</li> </ul>
Poor or no picture (screen is dark), but good sound.	<ul style="list-style-type: none"> <li>• Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to the factory settings (see page 11).</li> </ul>
No picture or no menu information from equipment connected to the Scart connector.	<ul style="list-style-type: none"> <li>• Check that the optional equipment is on and press the  button repeatedly on the remote control until the correct input symbol is displayed on the screen (see page 27).</li> </ul>
Good picture, no sound.	<ul style="list-style-type: none"> <li>• Press the  + button on the remote control.</li> <li>• Check that "TV Speakers" is "On" in the "Sound Adjustment" menu (see page 13).</li> <li>• Check that headphones are not connected.</li> </ul>
No colour on colour programmes.	<ul style="list-style-type: none"> <li>• Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to factory settings (see page 11).</li> </ul>
When you switch on the TV the last channel you were watching before switching the TV off does not appear.	<ul style="list-style-type: none"> <li>• This is not a malfunction. Press the number buttons on the remote control to select the desired channel.</li> </ul>
Distorted picture when changing programmes or selecting teletext.	<ul style="list-style-type: none"> <li>• Turn off any equipment connected to the Scart connector on the rear of the TV.</li> </ul>
Wrong characters appear when viewing teletext.	<ul style="list-style-type: none"> <li>• Use the menu system to enter the "Country" menu (see page 16) and select the country in which you operate the TV set. For cyrillic languages, we recommend selecting Russia country if your own country does not appear in the list.</li> </ul>
Wrong characters appear when viewing NextView.	<ul style="list-style-type: none"> <li>• Use the menu system to enter the "Language" menu (see page 16) and select the same language that NextView is broadcast in.</li> </ul>
Picture slanted.	<ul style="list-style-type: none"> <li>• Using the menu system, select the "Picture Rotation" option in the "Features" menu to correct the picture slant (see page 15).</li> </ul>
Snowy picture when viewing a TV channel.	<ul style="list-style-type: none"> <li>• Using the menu system, select the "Manual Programme Preset" menu and adjust Fine Tuning (AFT) to obtain better picture reception (see page 18).</li> <li>• Using the menu system, select the "Noise Reduction" option in the "Picture Adjustment" menu and select "Auto" to reduce the noise in the picture (see page 11).</li> </ul>

continued...

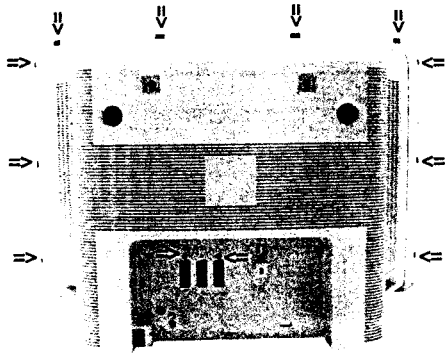
Problem	Solution
No unscrambled picture whilst viewing an unscrambled channel with a decoder or a Set Top Box connected through the Scart connector  3/  3.	<ul style="list-style-type: none"> <li>• Using the menu system, select the "Features" menu and set "AV3 Output" to "TV" (see page 15).</li> <li>• Check that the Decoder or the Set Top Box is not connected on the scart  2/  2.</li> </ul>
 ,  ,  and  buttons do not work in PAP mode.	<ul style="list-style-type: none"> <li>• PAP navigation is only possible in TV mode, please check that Media Selector is set to TV.</li> </ul>
Remote control does not function.	<ul style="list-style-type: none"> <li>• Check that the Media Selector on the remote control is set to the device you are using (VCR, TV, DVD or AUX)</li> <li>• If the remote control does not operate the VCR or DVD even when the Media Selector has been set correctly. Enter the necessary code set as explained on page 30.</li> <li>• Replace the batteries.</li> </ul>
The standby indicator  on the TV flashes.	<ul style="list-style-type: none"> <li>• Contact your nearest Sony service centre</li> </ul>

 If you continue to experience problems, have your TV serviced by qualified personnel. Never open the casing yourself.



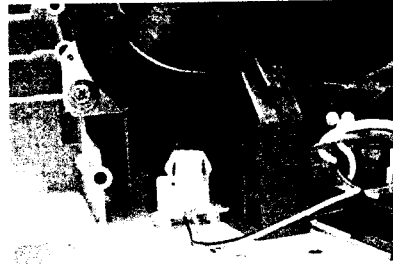
## SECTION 2 DISASSEMBLY

### 2-1. Rear Cover Removal



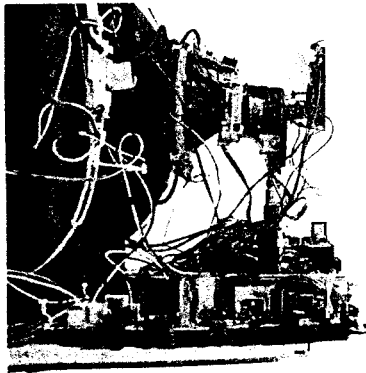
Remove the rear cover fixing screws indicated and pull the rear cover backwards away from the set. Take care when removing the rear cover not to damage the speaker cable [Disconnect the speaker connector] a speaker is fitted inside the rear cover.

### 2-2. Speaker Connector Disconnection

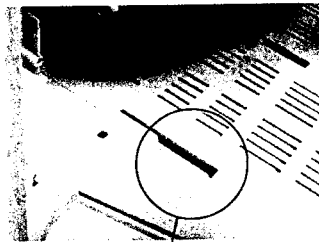


Before completely removing the rear cover disconnect the speaker connector which is located on the inside of the set.

### 2-3. Chassis Removal and Refitting

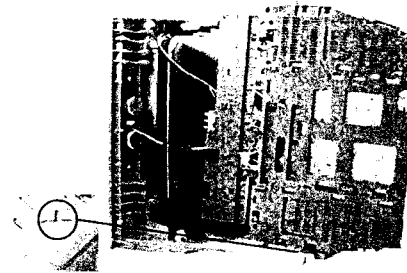


To remove lift the main bracket rear slightly and slide the chassis away from the beznet. Ensure that the interconnecting leads are released from their purse locks to prevent damage being caused.



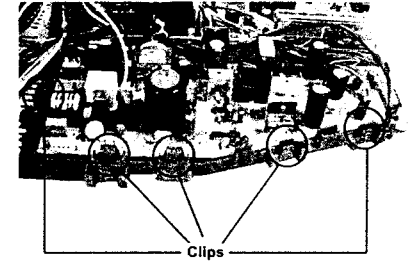
When refitting the chassis ensure that the main bracket is located in the beznet guide slots before sliding the chassis forwards. Refit the inter-connecting leads in their respective purse locks.

### 2-4. Service Position



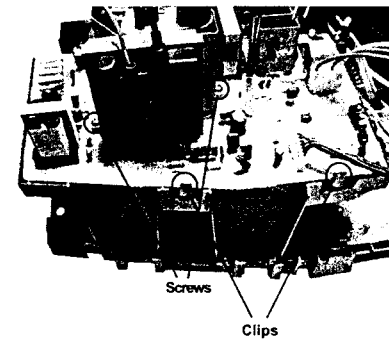
To place the chassis in the service position, insert the main bracket firmly into the T-slot located on the left corner of the beznet as indicated (see inset). To gain access to the underside of the boards follow the instructions on page 16. [Removal and Replacement of the main bracket bottom plates].

### 2-5. G Board Removal



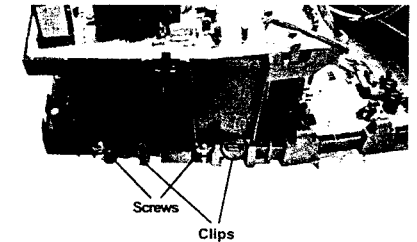
To remove the G Board remove the two screws from the middle of the board, release the clips circled and ease the board gently away from the support bracket.

### 2-6. D2 Board Removal



To remove the D2 board remove the two screws circled, release the clips circled and ease the board gently away from the support bracket.

### 2-7. D Board Removal

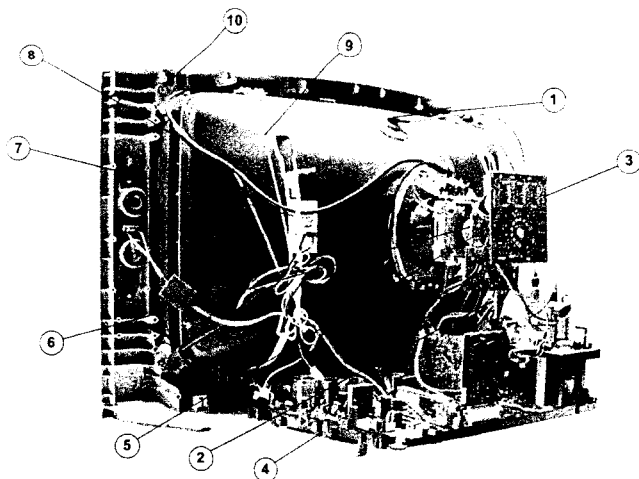
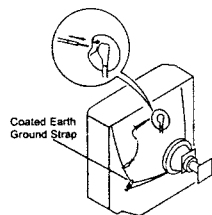


To remove the D board first remove the D2 bracket by removing the two screws circled and releasing the four clips (two on each side of the bracket). The D board can then be removed using the same method as the G board but with the necessity to remove only one screw from the middle of the D board.

## 2-8. Picture Tube Removal

### WARNING: BEFORE REMOVING THE ANODE CAP

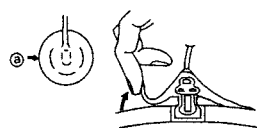
High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT *before* attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.



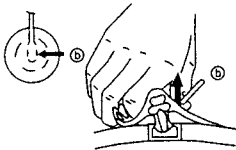
1. Discharge the anode of the CRT and remove the anode cap.
  2. Unplug all interconnecting leads from the Deflection yoke, neck assy, degaussing coils and CRT grounding strap.
  3. Remove the C Board from the CRT.
  4. Remove the chassis assembly.
  5. Loosen the Neck assembly fixing screw and remove.
  6. Loosen the Deflection yoke fixing screw and remove.
  7. Place the set with the CRT face down on a cushion and remove the Degaussing Coil holders.
  8. Remove the Degaussing Coils.
  9. Remove the CRT grounding strap and spring tensioners.
  10. Unscrew the four CRT fixing screws [ located on each CRT corner ] and remove the CRT.
- [Take care not to handle the CRT by the neck.]

### Removal of the Anode-Cap

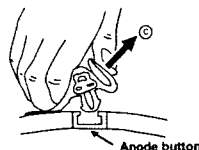
#### REMOVAL PROCEDURE.



- ① Turn up one side of the rubber cap in the direction indicated by the arrow ①



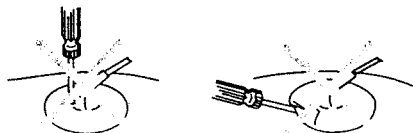
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②



- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ③

#### How to handle the Anode-Cap

1. To prevent damaging the surface of the anode-cap do not use sharp materials.
2. Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
3. A metal fitting called a shatter hook terminal is fitted inside the rubber cap.
4. Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.

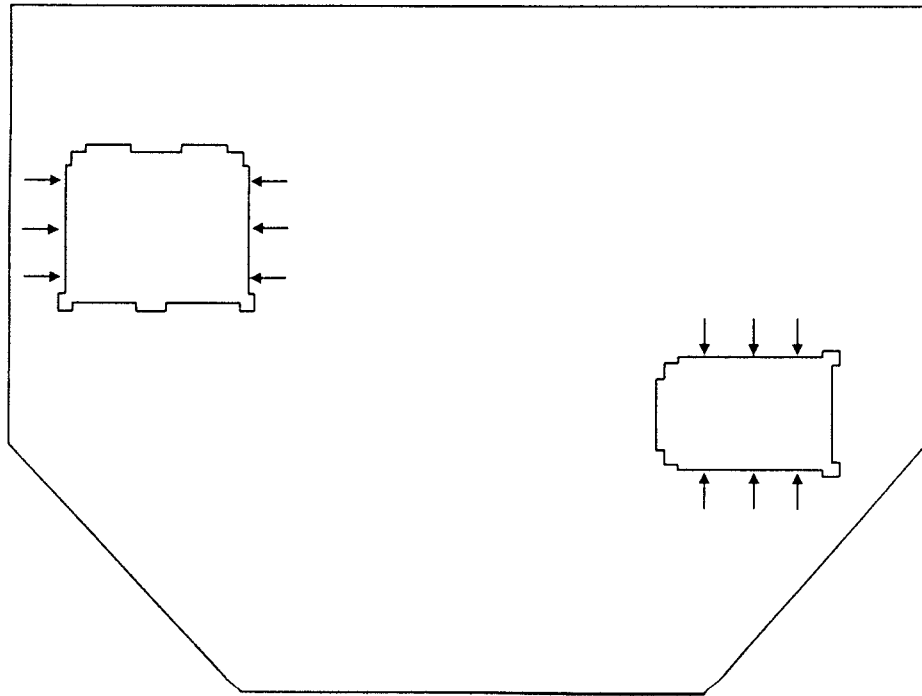


## REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

### (1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the printed wiring boards, the bottom plates fitted to the main chassis bracket require to be removed. This is performed by cutting the gates with a sharp wire cutter at the locations indicated by the arrows.

**Note :** There are 2 plates fitted to the main bracket. Only remove the necessary plate to gain access to the printed wiring board.

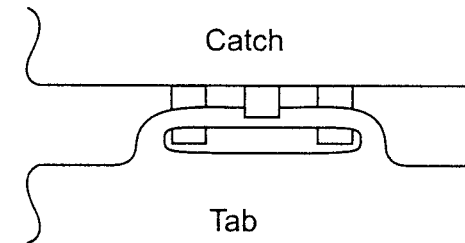


**For safety reasons, on no account should the plates be removed and not refitted after servicing.**

### (2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from their cut position to allow the tabs to be fitted into their catch positions.



## SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings:

Contrast ..... normal

Brightness ..... normal

Carry out the adjustments in the following order:

- 3-1. Beam Landing.
- 3-2. Convergence.
- 3-3. Focus.
- 3-4. White Balance.

Note: Test equipment required.

1. Color bar/pattern generator.
2. Degausser.
3. Oscilloscope.
4. Digital multimeter.

### 3-1. Beam Landing

#### Preparation:

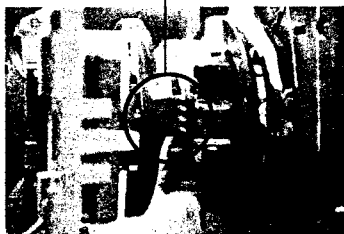
- In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
- Switch on the TV set's power and degauss with a degausser.

#### (1) Adjustment of Correction Magnet for Y-Splitting Axis.

- Input a crosshatch signal from the pattern generator.
- Set the Picture control to minimum and confirm that the Brightness control is set to normal.
- Position the neck assembly as indicated in Fig.3-2.
- Loosen the deflection yoke fixing screw.
- Move the deflection yoke as far forward as is possible.
- Adjust the upper and lower pin symmetrically by opening or closing the Y-splitting axis correction magnets located on the neck assembly. [See Fig.3-3]
- Return the deflection yoke to its original position and re-tighten its fixing screw.

Fig.3-1

Y-splitting axis correction magnet



#### Caution:

High voltages are present on the Deflection yoke terminals - take care when handling the Deflection yoke whilst carrying out adjustments.

#### (2) Landing

Note: Before carrying out the following adjustments adjust the magnets as indicated [See Fig.3-4].

- Input a crosshatch signal from the signal generator.
- Rough-adjust the focus and horizontal convergence.
- Switch from the crosshatch pattern to an all-red pattern.
- Move the deflection yoke backwards and adjust with the purity magnet so that the red is at the centre and it aligns symmetrically [See Fig.3-5].
- Move the deflection yoke forward to the point where the entire screen just becomes red [Mark its position].
- Move the deflection yoke further forward until the screen just changes colour at the edges. [Mark its position]
- Position the deflection yoke between the two marks indicated above.
- Input a crosshatch pattern from the pattern generator and rotate the deflection yoke so that the horizontal lines are parallel with the top and bottom of the screen.
- When the position of the deflection yoke has been determined, fasten it with its fixing screw.
- Switch the pattern generator to green then blue and confirm the purity.
- If the beam does not land correctly in all the corners of the screen, use disk magnets to correct it. [Confirm the corner landing for green and blue]

Fig.3-2

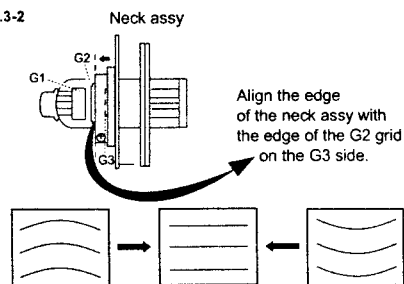


Fig.3-3

Fig.3-4

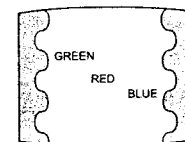
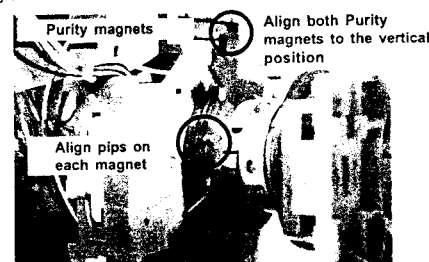
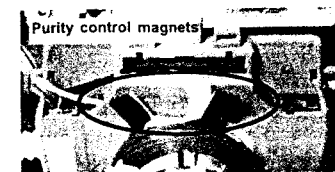
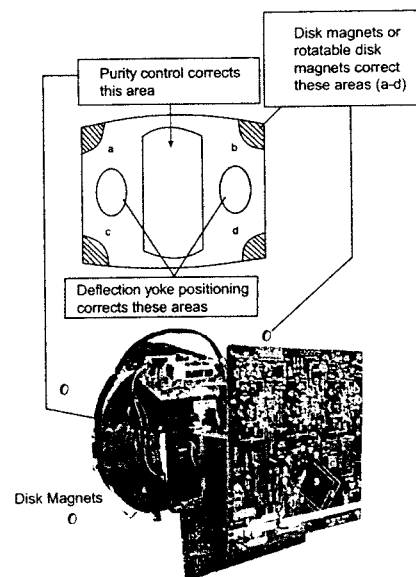


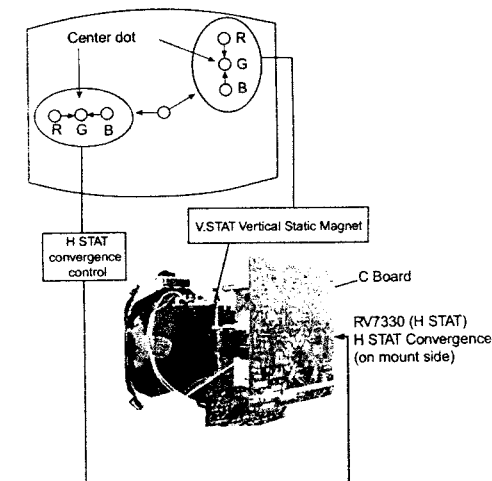
Fig.3-5



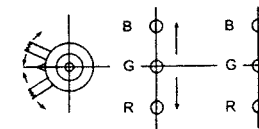
### 3-2. Convergence

#### (1) Screen centre convergence [Static convergence]

- Input a dot pattern signal from the pattern generator.
- Normalize the picture setting.
- [Moving vertically], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen.



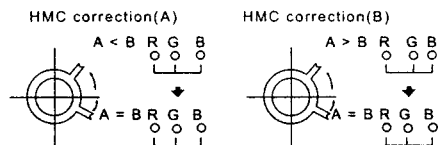
By opening or closing the V.STAT magnet, the red green and blue dots move in the direction indicated below.



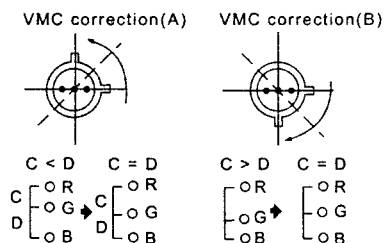
Note: Do not adjust the H-STAT by rotating the V.STAT magnets as this can affect the focus setting.

4. Correction for HMC [Horizontal mis-convergence] and VMC [Vertical mis-convergence] by using the BMC [Hexapole] magnet.

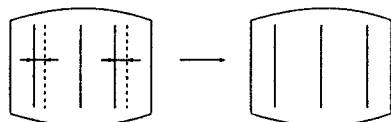
- a). HMC correction by BMC [Hexapole] magnet and movement of the electron beam.



- b). VMC correction by BMC [Hexapole] magnet and movement of the electron beam.



#### HAMP Adjustment

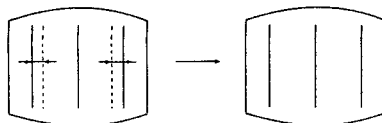


Adjust the HAMP using HAMPL and HAMPR registers in the Dynamic Convergence section of the service menu.

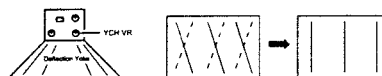
#### HTIL Adjustment



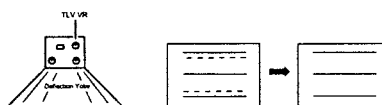
HTIL correction can be performed by adding a THL correction assembly to the Deflection yoke.



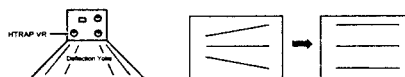
#### YCH Adjustment



#### TLV Adjustment

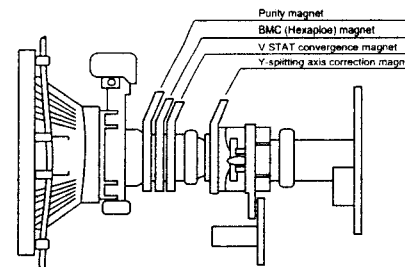


#### H-TRAP Adjustment

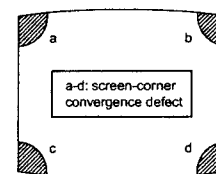


The H-TRAP should not be adjusted unless absolutely necessary as it affects the TLV settings.

#### Layout of each control

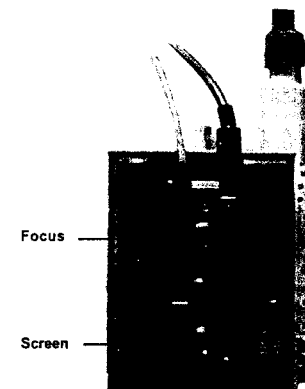


Note : If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.



### 3-3. Focus Adjustment

1. Receive a television broadcast signal.
2. Normalize the picture setting.
3. Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen.  
Bring only the centre area of the screen into focus, the magenta-tinge appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



### 3-4. Screen (G2), White Balance

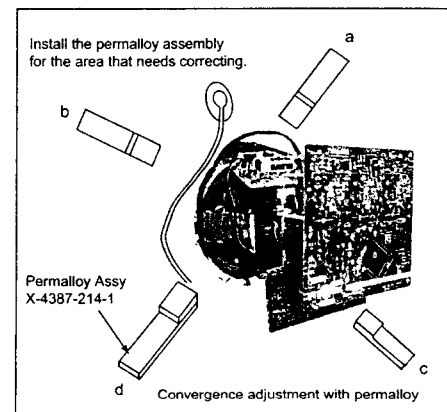
[Adjustment in the service mode using the remote commander]

#### G2 adjustment

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 175V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust the G2 control [SCREEN] located on the flyback transformer to the point just before the flyback return lines disappear.

#### White balance adjustment for TV mode

1. Input an all-white signal from the pattern generator.
2. Program the Remote Commander for operation in Service Mode. [ See Page 21 ].
3. Enter into the 'Service Mode' by pressing 'AUX/VIDEO' button twice and 'MENU' on the Service Commander.
4. Select 'Service' from the on screen menu display and press 'Right Arrow'.
5. The 'Service' menu will appear on the screen.[See Page 21]
6. Select 'Picture' from the on screen menu and press right arrow.
7. Select 'Picture settings' from the on screen menu and press right arrow and set the 'Contrast\_Max' to MAX.
8. Select 'White Balance' from the on screen menu and press right arrow.
9. The 'White Balance' menu will appear on the screen.
10. Set the 'Normal\_PAL\_RD' to 465.
11. Adjust the 'Normal\_PAL\_GD' and the 'Normal\_PAL\_BD' so that the white balance becomes optimum.
12. Select 'Picture settings' from the on screen menu and press right arrow and set the 'Contrast\_Min' to MIN.
13. Set the 'Normal\_PAL\_RC' to 121.
14. Adjust the 'Normal\_PAL\_GC' and the 'Normal\_PAL\_BC' with the left and right buttons on the commander so that the white balance becomes optimum.
15. Press the 'OK' button to write the data for each item.



## SECTION 4 CIRCUIT ADJUSTMENTS

### 4-1. Electrical Adjustments

Service adjustments to this model can be performed using the supplied remote Commander RM-942.

#### Programming the Remote Commander for Operation in Service Mode

- Press and hold the left Mode Select button until the VCR and DVD LED's flash.
- Press 99999. The TV LED should light. The remote commander is now set to Service Mode.
- To return the remote commander to normal operation mode repeat step 1. then press 00000. The TV LED should light. The remote commander is now set to normal mode.



#### Setting the TV into Service Mode

- Program the remote commander for operation in Service Mode as described above.
- Turn on the TV main power switch.
- Press the 'aux/video' standby button on the remote commander twice. 'TT\_\_' will appear in the upper right corner of the screen. Other status information will also be displayed.
- Press 'MENU' on the remote commander to obtain the following menu on the screen.

Service Main Menu: AE6BA'Y (v0.26D) NVM VERSION:04H	
Service	▶
Design	
Error	
Select: ▲ ▼	Select Item: ▶ Previous Menu: ◀
FACTORY INFO: FFH FFH 03H	

- Move to the corresponding adjustment item using the up or down arrow buttons on the Remote Commander.
- Press the right arrow button to enter into the required menu item.
- Press the 'aux/video' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

#### Note :

- After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON.

Service	
Geometry	▶
Picture	
Audio	
Select: ▲ ▼	Select Item: ▶ Previous Menu: ◀

Geometry	
Wide mode adjustment	▶
Screen offsets	
Frequency offsets	
Select: ▲ ▼	Select Item: ▶ Previous Menu: ◀

Wide mode adjustment			
Description	(min,max)	Default	Value
V AMP	(-128,127)	35	35 ▶
V ZOOM	(0,510)	256	256
V POS	(-512,511)	-10	-10
V LIN	(-128,127)	0	0
V SCORR	(-128,1270)	4	4
H WIDTH	(-256,255)	63	63
V TRAP	(-128,127)	1	1
PIN AMP	(-511,511)	-80	-80
UP COR	(-128,127)	-1	-1
LOW COR	(-128,127)	-2	-2
H POS	(-600,600)	10	10
ANGLE	(-511,511)	-1	-1
BOW	(-511,511)	8	8
H LIN	(0,255)	85	84
H TRAP	(0,255)	138	138
H SCORR	(0,255)	100	100
UP COR 6	(-128,127)	-1	-1
LOW COR 6	(-128,127)	0	0
PIN UNBAL	(-240,240)	-40	-40
MID PIN	(-240,240)	-60	-60
Select: ▲ ▼	Select Item: ▶	Previous Menu: ◀	

Picture	
White balance	▶
Colour Tone	
Picture settings	
Select: ▲ ▼	Select Item: ▶ Previous Menu: ◀

Picture settings			
Description	(min,max)	Default	Value
SUBCOLOR PAL	(0,63)	31	34 ▶
SUBCOLOR SECAM	(0,63)	31	34
SHP MAXLTI	(0,31)	31	20
SHP MAXPEAK	(0,15)	15	12
CONTRAST MIN	(0,63)	17	17
CONTRAST MAX	(0,63)	59	59
BRIGHT EXPAND	(0,511)	400	400
BRIGHT CENTER	(-256,255)	10	40
Select: ▲ ▼	Select Item: ▶	Previous Menu: ◀	

Audio	
BBE OFF mode	▶
BBE Natural/V.Dolby offsets	
BBE Dynamic offsets	
BBE Cinema offsets	
Subwoofer level adjustments	
Audio detection thresholds	
Select: ▲ ▼	Select Item: ▶ Previous Menu: ◀

BBE OFF mode			
Description	(min,max)	Default	Value
SW_FREQ_OFF	(5,40)	20	20 ▶
BAND1_OFF_OFFSET	(-96,96)	0	0
BAND2_OFF_OFFSET	(-96,96)	0	0
BAND3_OFF_OFFSET	(-96,96)	0	0
BAND4_OFF_OFFSET	(-96,96)	0	0
BAND5_OFF_OFFSET	(-96,96)	0	0
BBE_LOUDNESS_OFF	(0,68)	0	0
Select: ▲ ▼	Select Item: ▶	Previous Menu: ◀	

Design	
CXA2149 - AVSwitch Device	▶
DDP3315 - Backend Device	
MSP3411 - Sound Processor Device	
TDA988x - IF Device	
TUA60xx - PLL Device	
VSP9427 - Video Processor Device	
CXA2019 - Chroma Decoder	
CXD3804 - 3D Comb Filter	
CXA8070 - Dynamic Convergence Device	
FRC9429 - FRCA Device	
PJ Engine	
Select: ▲ ▼	Select Item: ▶ Previous Menu: ◀

Error monitor		
WORKING TIME:	(Hours:Minutes)	82:33
Error counters:		
E02: OCP		0
E03: OVP		0
E04: NO V SYNC		0
E05: IKR		0
E06: IIC		0
E07: NVM		0
E08: H PROT		0
E09: TUNER		0
E10: SOUND		0
E11: 9 VOLTS		0
E12: SCANRATE		0
E13: 3DCOMB		0
E14: BACKEND		0
E15: DYNCON		0
E16: HIGH VOLTAGE		0
E17: AVSWITCH		0
E18: CHROMA DEC		0
E19: FRCA		0
E20: PJ ENG		0
E21: DAC		0
E24: SPEAKER PROT		0
E25: MEMORY STICK		0
Select: ▲ ▼	Previous Menu: ◀	

#### Sub Brightness Adjustment

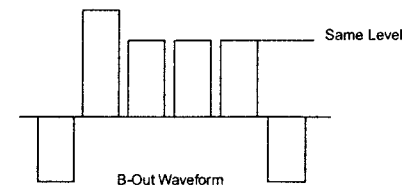
- Input a Monoscope pattern.
- Program the Remote Commander for operation in Service Mode. [ See Page 21 ].
- Press 'AUX/VIDEO' '13' on the Remote Commander.
- Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

#### Sub Contrast Adjustment

- Input a video signal that contains a small 100% white area on a black background.
- Connect an oscilloscope to Pin 10 of J7330 [C Board].
- Program the Remote Commander for operation in Service Mode. [ See Page 21 ].
- Adjust the Sub-Contrast [ Using 'AUX/VIDEO' '11' ] to obtain a voltage of 114 +0/- 5V.

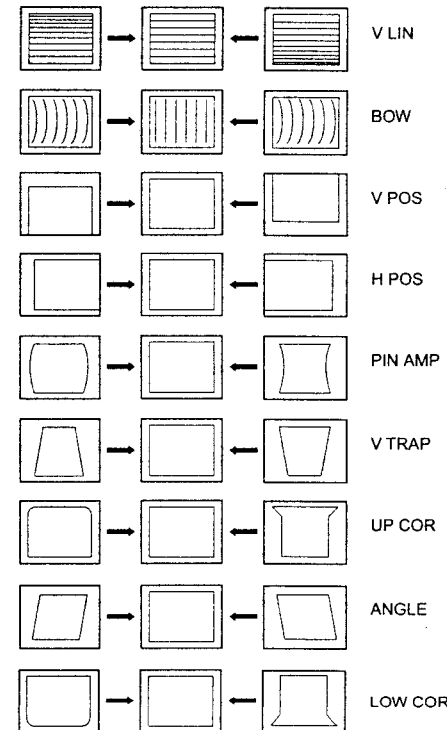
#### Sub Colour Adjustment

1. Receive a PAL colour bar signal.
2. Connect an oscilloscope to Pin 5 of CN7331 [C Board].
3. Program the Remote Commander for operation in Service Mode. [ See Page 21 ].
4. Adjust the 'Sub Colour' [ Using 'AUX/VIDEO' 'AUX/VIDEO' '12' ] so that the Cyan, Magenta and Blue colour bars are of equal levels as indicated below.



#### Deflection System Adjustment

1. Program the Remote Commander for operation in Service Mode. [ See Page 21 ] and enter into the 'Geometry' service menu, Wide mode adjustment.
2. Select and adjust each item in order to obtain the optimum image.

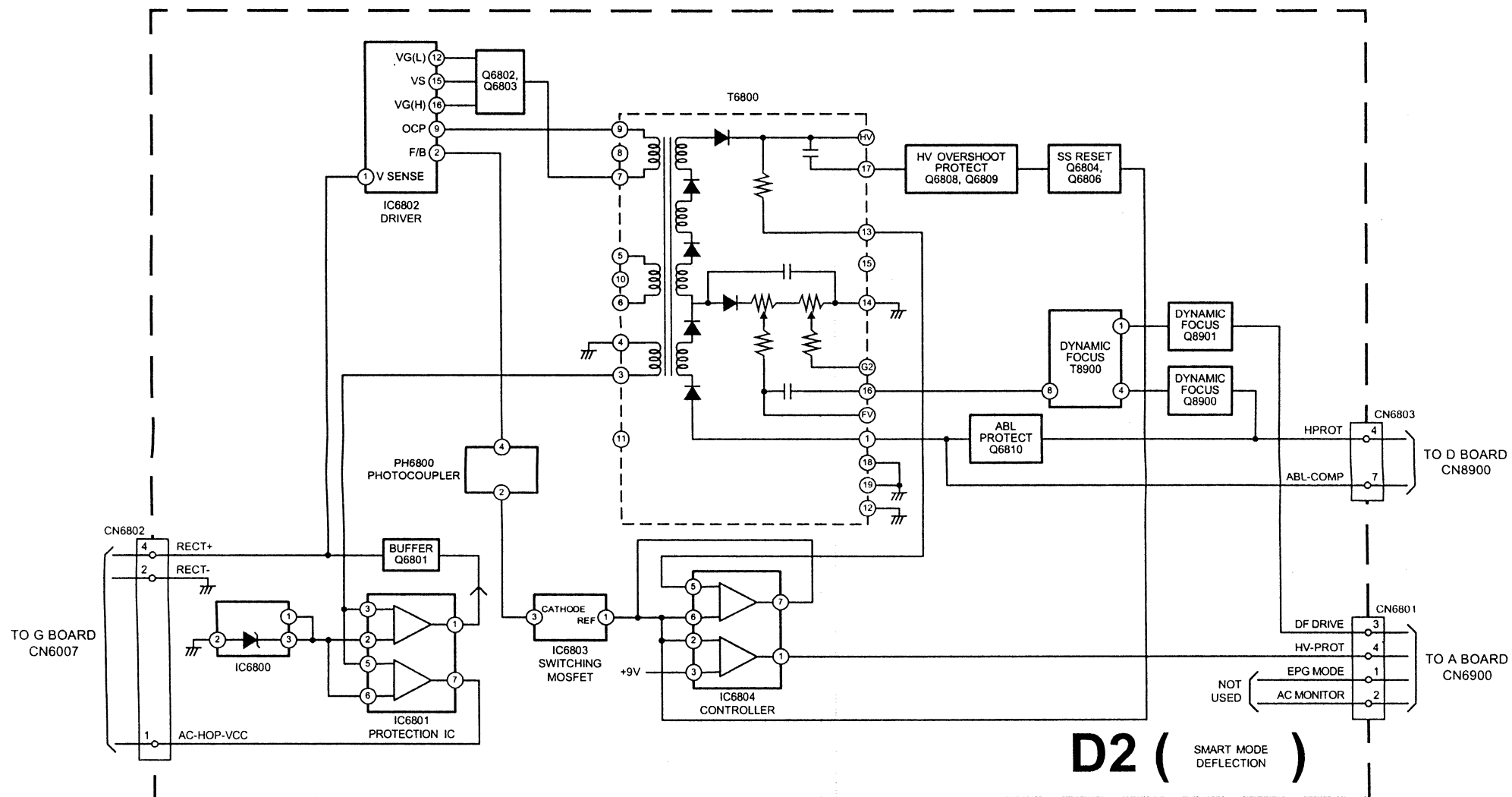
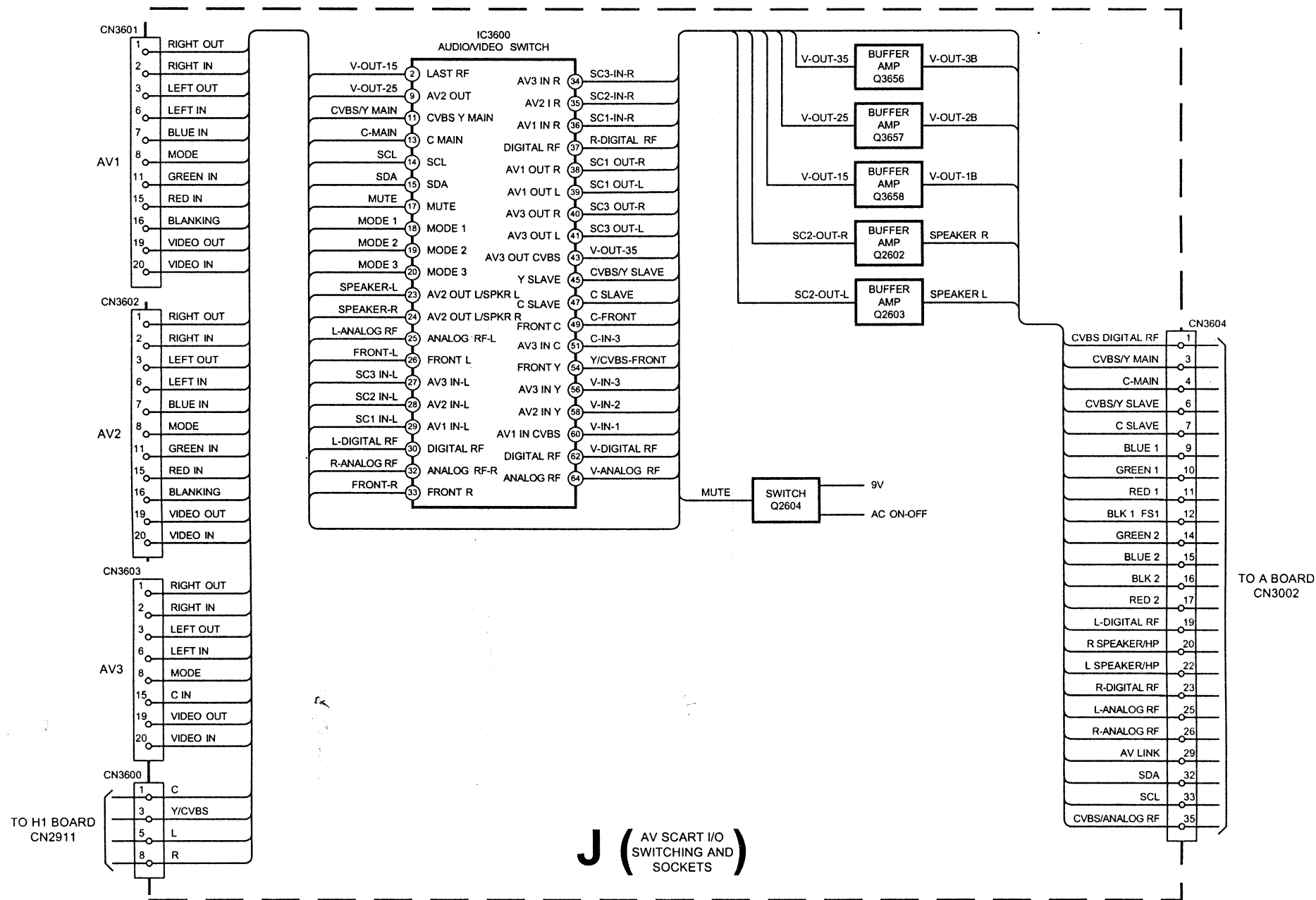


#### 4-2. TEST MODE 2:

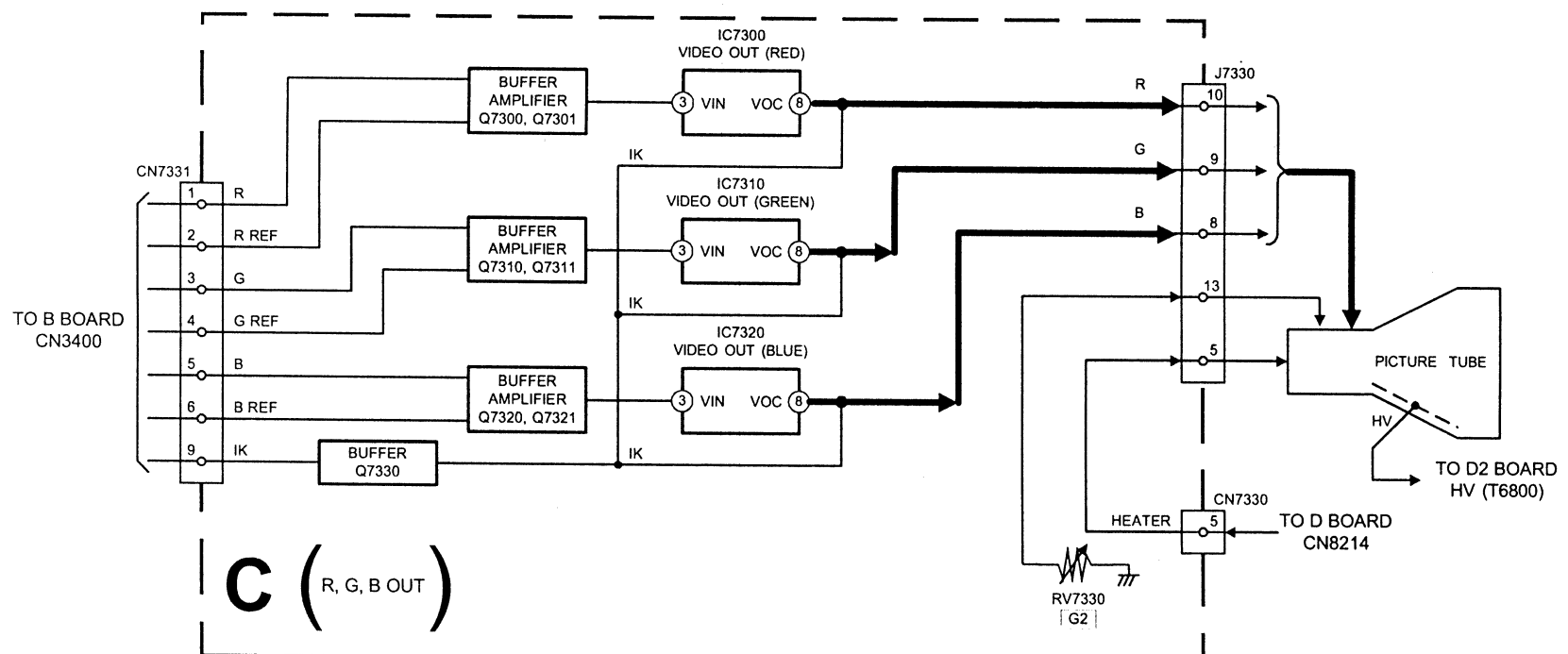
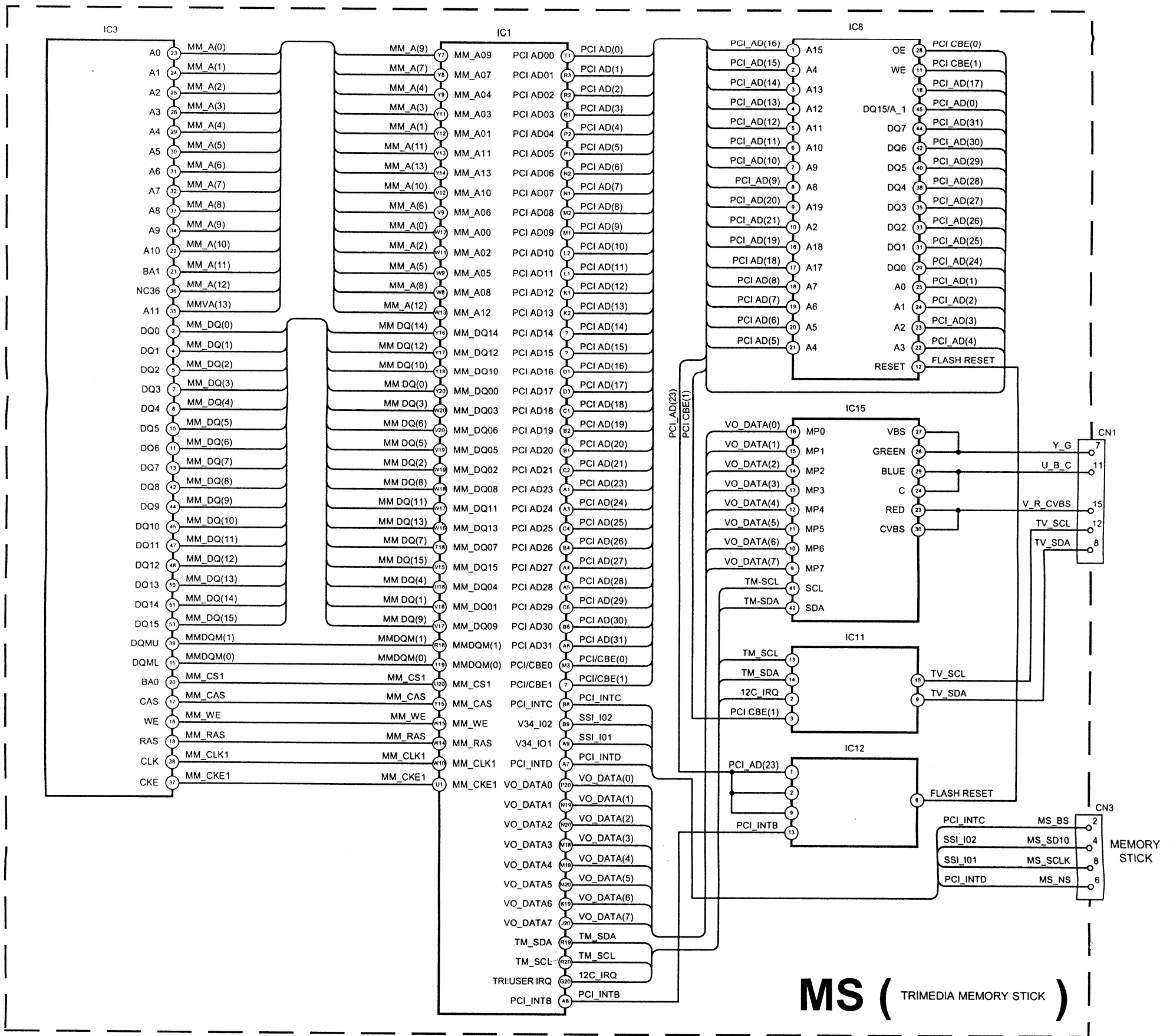
Test Mode 2 is available by programming the Remote Commander for operation in Service Mode [ As shown on Page 21 ] then pressing the 'AUX/VIDEO' button twice, OSD 'TT' appears. The functions described below are available by selecting the two numbers. To release 'Test mode 2', press 00, or switch the TV set into Stand-by mode.

00	'TT' mode off
01	Set picture level to maximum
02	Set picture level to minimum
03	Set speaker/headphone Volume to 35%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing mode on
08	Shipping Condition
11	Sub picture adjustment
12	Sub colour adjustment
13	Sub brightness adjustment
15	Rotation coil test
16	Picture level 50%
19	Factory mode enable/disable
21	Destination ADEKR
22	Destination BL
24	Destination U
35	Wide model selection
36	VM off/on test
43	Select Dual A sound
44	Select Dual B sound
45	Select Mono sound
46	Select Stereo sound
49	Set NVM as virgin
53	FM Overmodulation enable/disable
62	AM from baseband enable/disable
73	Enable Zweiton D/K2 system (6.5/6.74)
74	Enable Zweiton D/K3 system (6.5/6.74)
78	Balance full left
79	Balance full right
87	Local keys test
91	Set 14:9 zoom mode
92	Set Smart zoom mode
93	Set 16:9 zoom mode
94	Set ZOOM zoom mode
95	Set 4:3 zoom mode
96	Set Smart zoom mode (for FX66)
99	DisplayError and Working Time menu

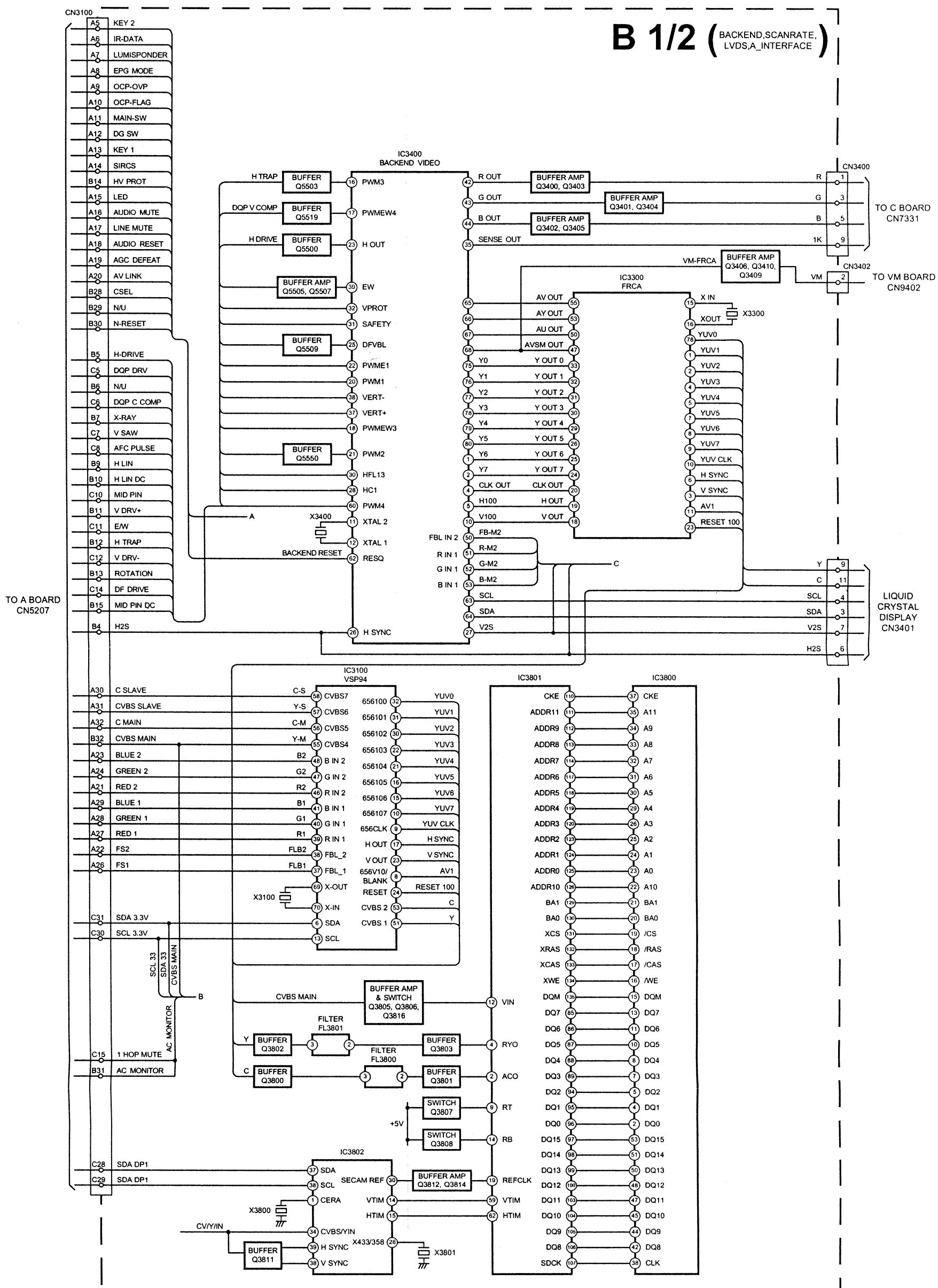
5-1. BLOCK DIAGRAMS (1)

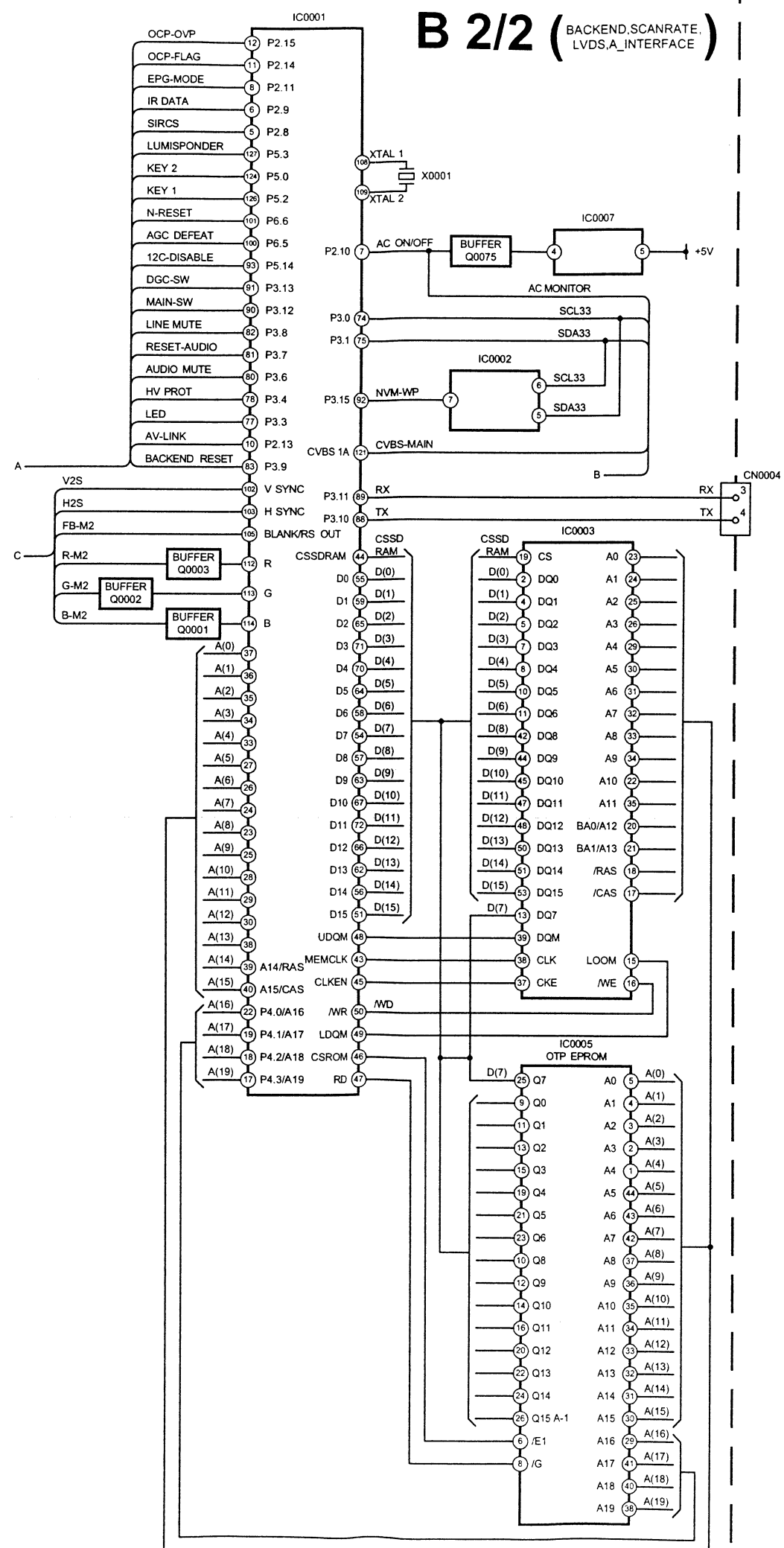


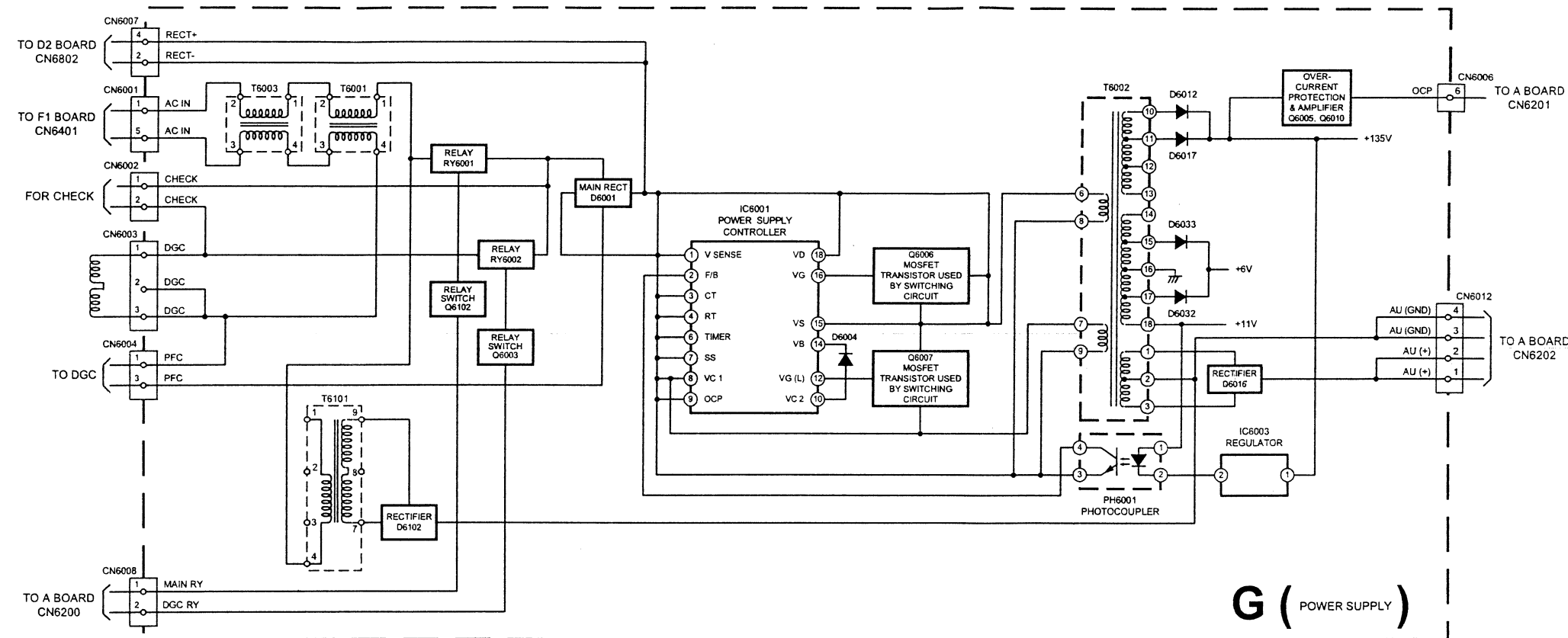
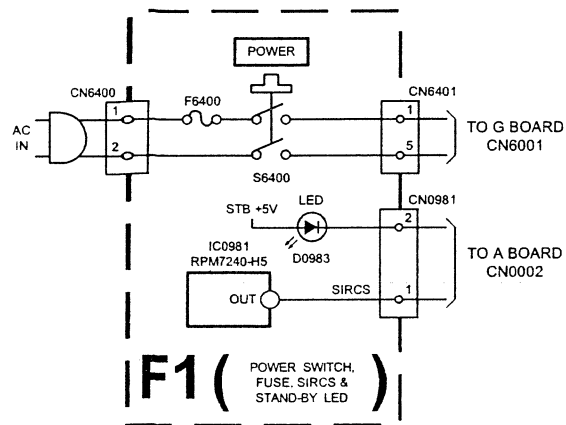




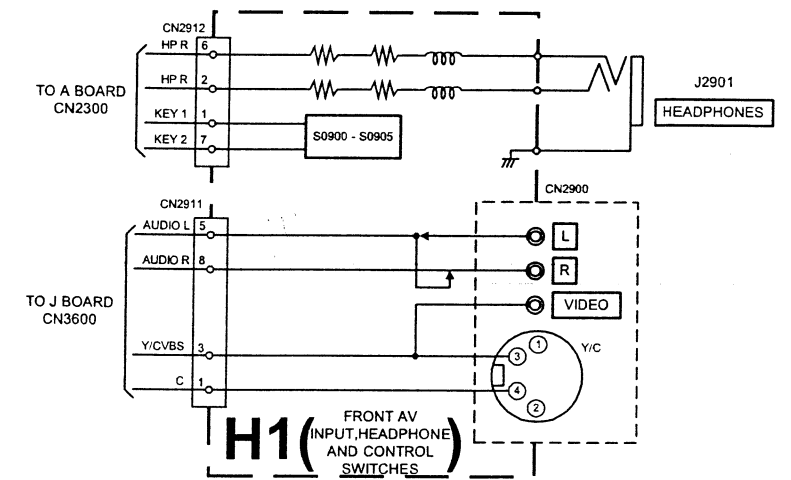
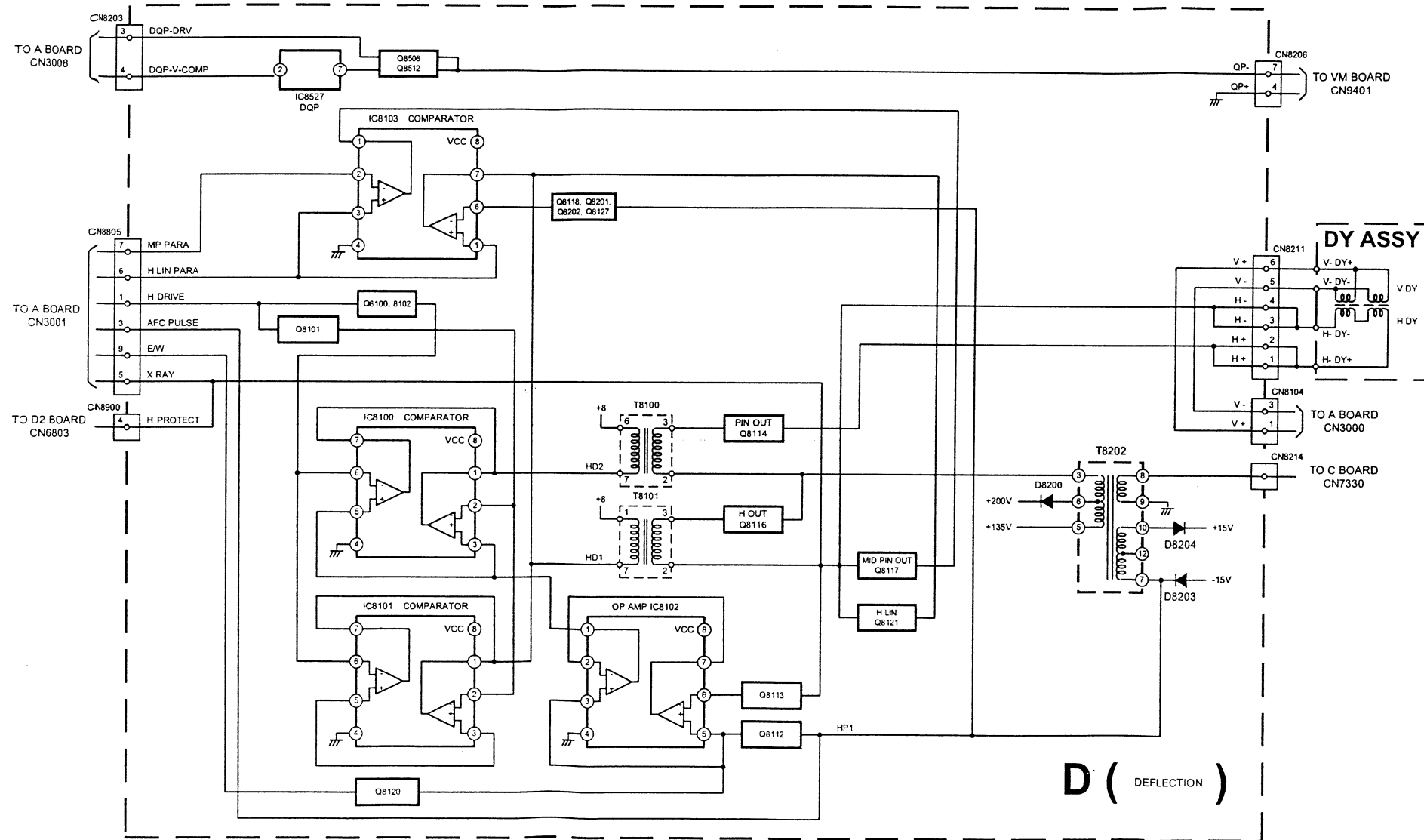
## 5-1. BLOCK DIAGRAMS (2)



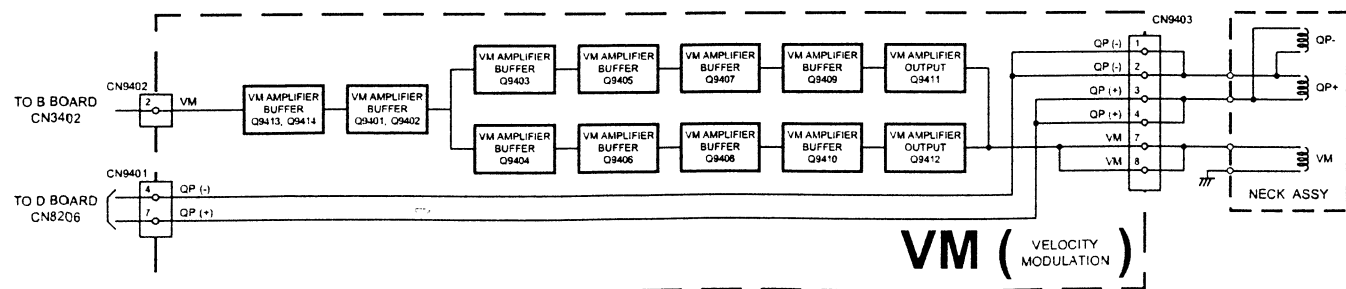
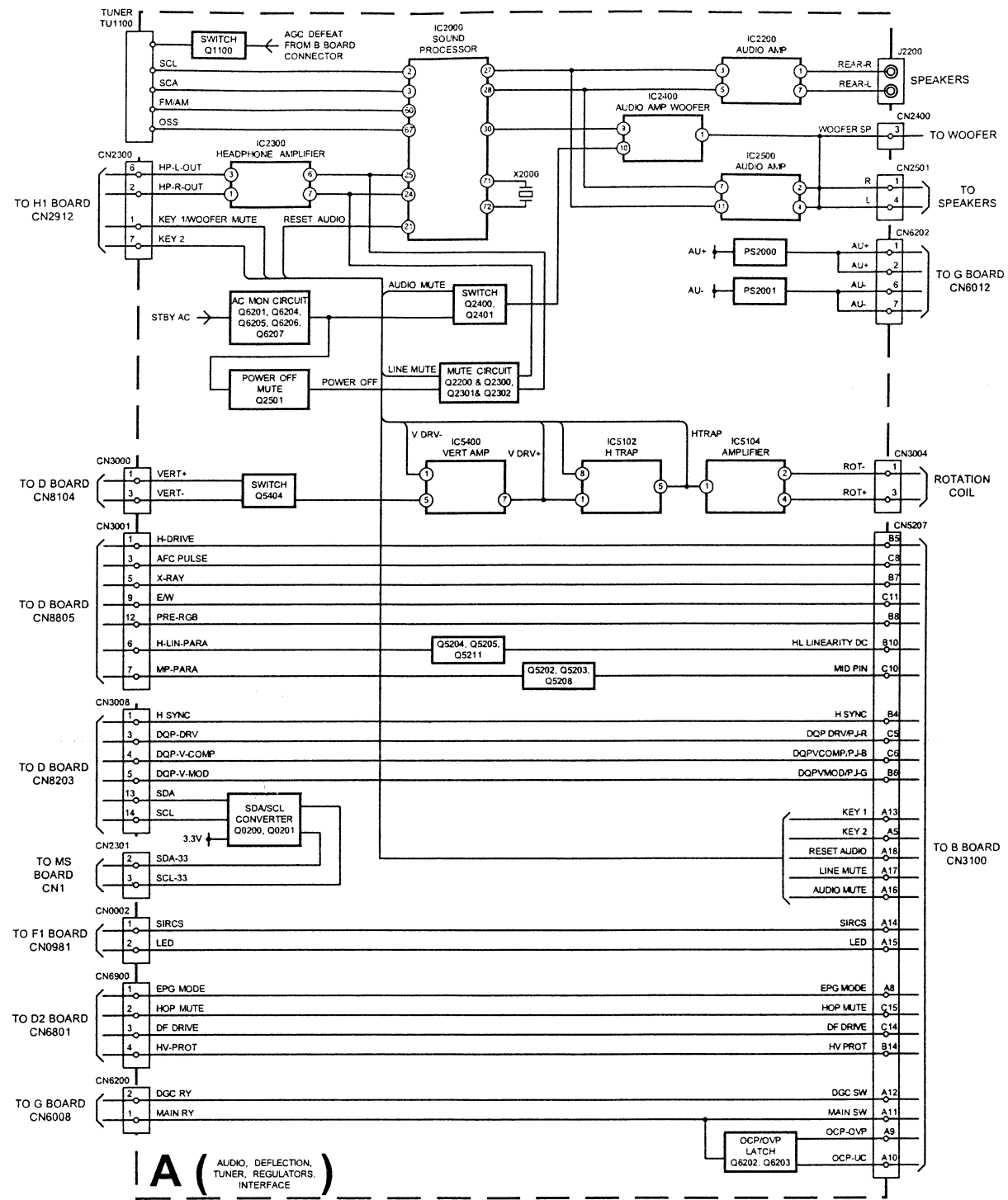




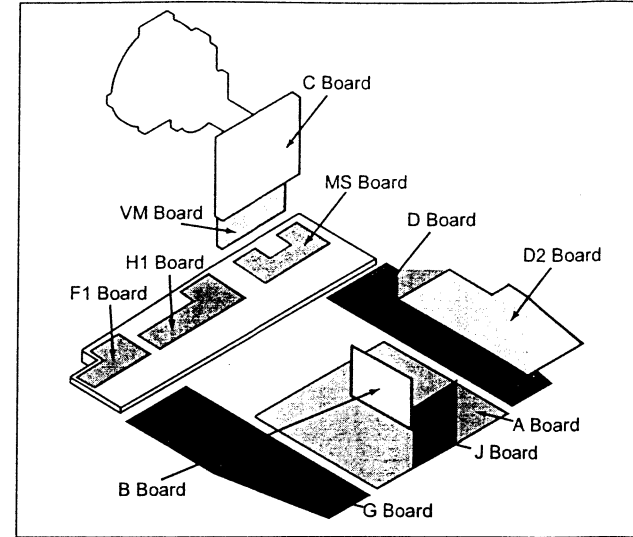
### 5-1. BLOCK DIAGRAMS (3)



## 5-1. BLOCK DIAGRAMS (4)



## 5-2. CIRCUIT BOARD LOCATION







### 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

**Note :**






- All capacitors are in  $\mu\text{F}$  unless otherwise noted.
- $\text{pF}$  :  $\mu\text{pF}$  50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm  
Electrical power rating : 1/4W


- Chip resistors are 1/10W
- All resistors are in ohms.  
k = 1000 ohms, M = 1000,000 ohms

-  : nonflammable resistor.
-  : fusible resistor.
-  : internal component.
-  : panel designation or adjustment for repair.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital multimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerances.

-  : B + bus.
-  : B - bus.
-  : RF signal path.
-  : earth - ground.
-  : earth - chassis.

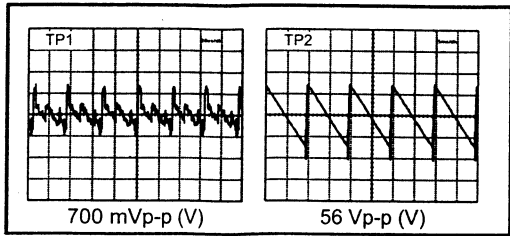
### Reference Information

<b>RESISTOR</b>	<b>RN</b>	: METAL FILM
	<b>RC</b>	: SOLID
	<b>FPRD</b>	: NON FLAMMABLE CARBON
	<b>FUSE</b>	: NON FLAMMABLE FUSIBLE
	<b>RS</b>	: NON FLAMMABLE METAL OXIDE
	<b>RB</b>	: NON FLAMMABLE CEMENT
	<b>RW</b>	: NON FLAMMABLE WIREWOUND
		: ADJUSTMENT RESISTOR
<b>COIL</b>	<b>LF-8L</b>	: MICRO INDUCTOR
<b>CAPACITOR</b>	<b>TA</b>	: TANTALUM
	<b>PS</b>	: STYROL
	<b>PP</b>	: POLYPROPYLENE
	<b>PT</b>	: MYLAR
	<b>MPS</b>	: METALIZED POLYESTER
	<b>MPP</b>	: METALIZED POLYPROPYLENE
	<b>ALB</b>	: BIPOLAR
	<b>ALT</b>	: HIGH TEMPERATURE
	<b>ALR</b>	: HIGH RIPPLE

**Note :** The components identified by shading and marked  $\Delta$  are critical for safety. Replace only with the part numbers specified in the parts list.

**Note :** Les composants identifiés par une trame et par une marque  $\Delta$  sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.

~ A Board Waveforms ~



~ A Board Semiconductor Voltage Table ~

Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)
Q1100	0	0	4.5	Q2202	0	0.4	0	Q2500	0.1	0.1	0.6	Q5101	0.8	1.4	6.8	Q5208	0	0	1.5	Q6202	3.4	3.4	0
Q1300	2.7	2.1	8.4	Q2300	0	0	0.7	Q2501	0	0.6	0	Q5200	6.8	6.3	3.0	Q5209	0	0	1.5	Q6203	0	0	3.4
Q1301	2.1	2.1	0	Q2301	0	0.4	0	Q2502	0	0	5.0	Q5201	0	0.4	3.0	Q5210	0	0	1.5	Q6204	3.4	3.4	0
Q2000	0	0	4.7	Q2302	0	0.4	0	Q2503	0	0	5.0	Q5203	0	0.4	3.0	Q5211	0	0	1.5	Q6205	3.5	2.7	3.4
Q2200	0	0	-1.6	Q2400	3.9	3.4	0	Q2504	5.0	5.0	0	Q5205	0	0.4	1.5	Q5404	0	12.1	0	Q6206	1.5	2.0	2.7
Q2201	0	0.4	0	Q2401	0	0	4.7	Q5100	2.4	1.8	0	Q5207	0	0.4	3.0	Q6201	1.5	0.6	3.4	Q6207	0	0	3.4

~ A Board Location Table (A Side) ~

DIODE		D5405	D - 10	D6211	K - 4	IC2500	H - 3	IC6204	M - 4	
D2200	D - 3	D6201	J - 9	D6212	J - 9	IC5102	I - 10	IC6207	J - 10	
D2201	E - 3	D6203	L - 5	D6213	L - 8	IC5104	H - 10	IC6209	J - 8	
D5103	H - 10	D6204	K - 2	IC		IC5400	E - 10	IC6210	K - 4	
D5404	E - 11	D6210	L - 4	IC2400		J - 4	IC6202	L - 8	IC6212	L - 3

~ A Board IC Voltage Table ~

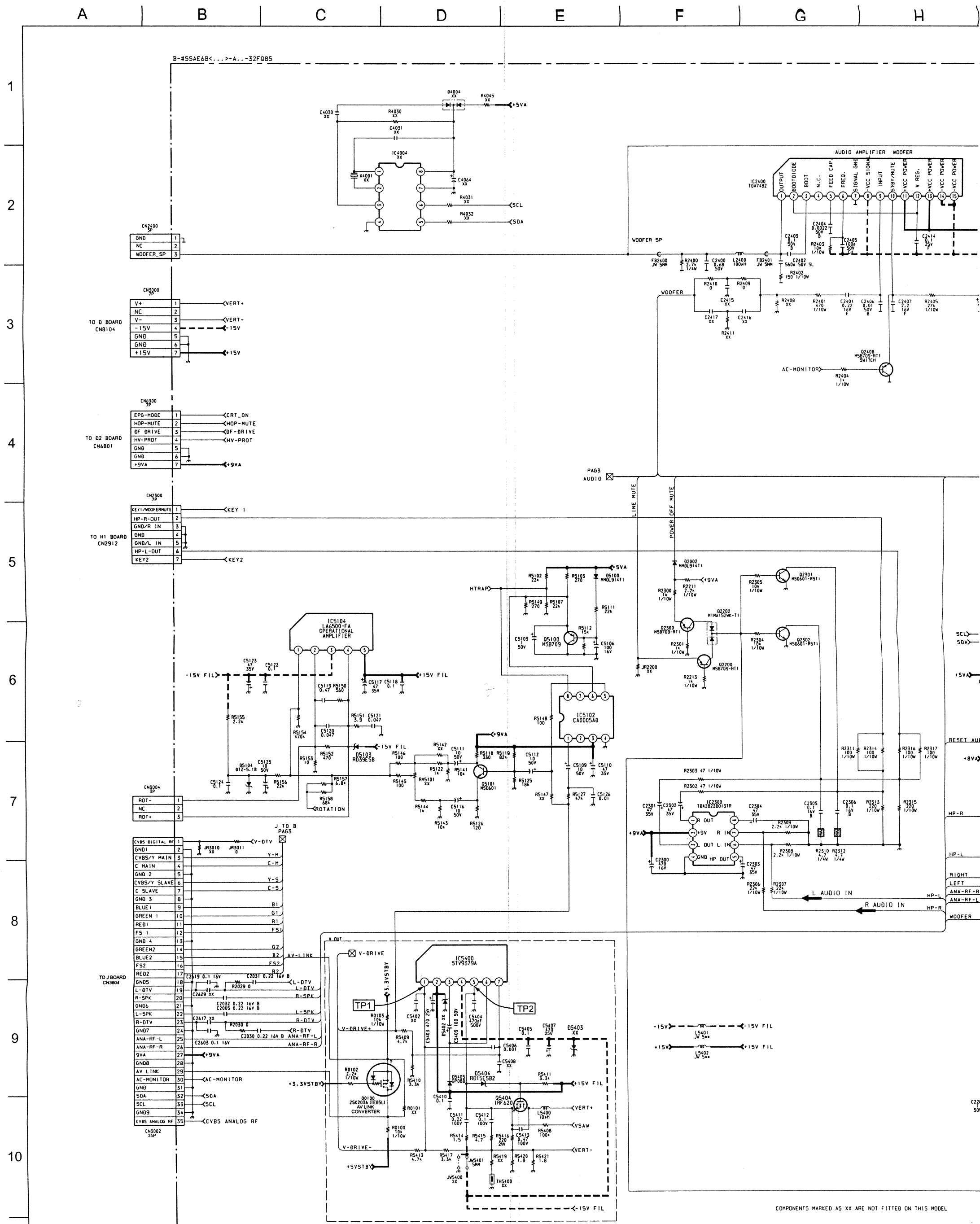
IC Voltage Table			IC Voltage Table			IC Voltage Table			IC Voltage Table			IC Voltage Table		
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC2200	1	4.5	IC2300	6	0	IC2400	12	-4.0	IC5102	2	0	IC5400	7	0.4
	2	4.5		7	0		2	0		5	2.5		4	1.3
	3	4.5		8	0.5		5	0.9		6	2.5		5	6.7
	5	4.5	IC2400	1	0	IC2500	7	0	IC5104	8	2.2	IC6207	4	1.3
	6	4.5		2	-4.0		8	0		1	14.6		5	6.7
	7	4.5		3	10.0		9	0	IC5400	1	0.4	IC6209	4	1.3
IC2300	1	4.0		5	0		10	0		3	-12.3		5	6.7
	3	4.0	6	-13.2	11	0	5	0		IC6212	4	5.1		
	5	0.5	10	3.9	IC5102	1	17.1	6	15.7		5	0		

~ A Board Location Table (B Side) ~

DIODE		D5206	G - 7	D6204	E - 2	IC2200	L - 4	IC6207	F - 9	Q1300	L - 2	Q2401	F - 4	Q5202	H - 4	Q5404	K - 10
D2200	L - 3	D5207	G - 6	D6205	E - 3	IC2300	J - 3	IC6209	F - 9	Q1301	K - 2	Q2500	H - 3	Q5203	H - 4	Q6201	E - 2
D2201	J - 4	D5208	H - 6	D6206	D - 3	IC2400	G - 4	IC6210	F - 4	Q2000	J - 3	Q2501	H - 3	Q5204	G - 7	Q6202	E - 3
D2202	J - 4	D5209	G - 7	D6207	D - 3	IC2500	H - 3	IC6211	E - 5	Q2200	I - 4	Q2502	H - 4	Q5205	F - 6	Q6203	E - 3
D2500	H - 3	D5210	G - 6	D6208	D - 3	IC5102	G - 10	IC6212	E - 4	Q2201	L - 3	Q2503	H - 4	Q5206	H - 7	Q6204	E - 3
D5100	G - 10	D5211	G - 6	D6210	D - 3	IC5104	H - 10	TRANSISTOR		Q2202	L - 3	Q2504	H - 4	Q5207	H - 6	Q6205	E - 2
D5104	H - 9	D5404	K - 10	D6213	D - 8	IC5400	K - 10	Q0100	K - 6	Q2300	I - 4	Q5100	G - 10	Q5208	G - 7	Q6206	E - 2
D5200	F - 7	D5405	L - 10	D6214	E - 4	IC6200	E - 5	Q0200	K - 7	Q2301	I - 4	Q5101	F - 10	Q5209	H - 6	Q6207	E - 2
D5202	F - 6	D6201	F - 9	IC		IC6202	D - 8	Q0201	K - 7	Q2302	J - 4	Q5200	F - 6	Q5210	G - 6	Q6208	E - 3
D5205	G - 7	D6203	D - 5	IC2000	K - 4	IC6204	E - 4	Q1100	M - 2	Q2400	F - 4	Q5201	F - 6	Q5211	G - 6	Q6209	E - 4

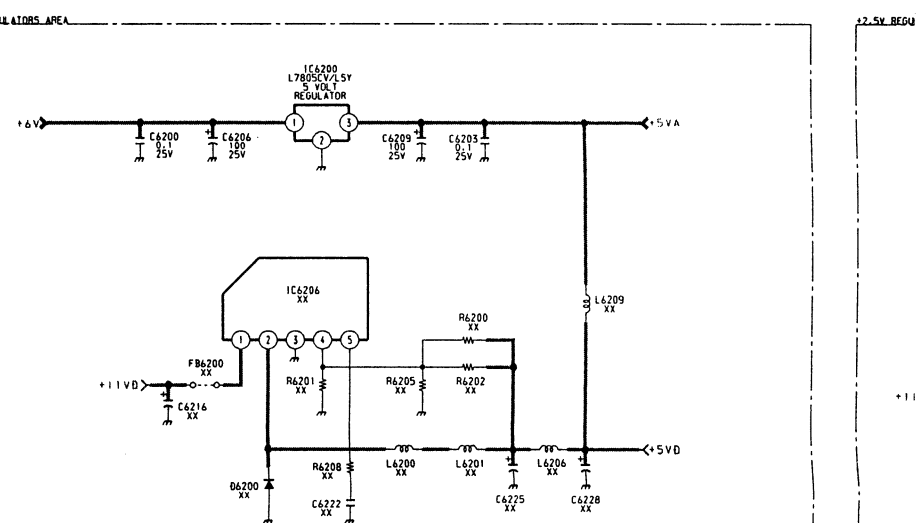
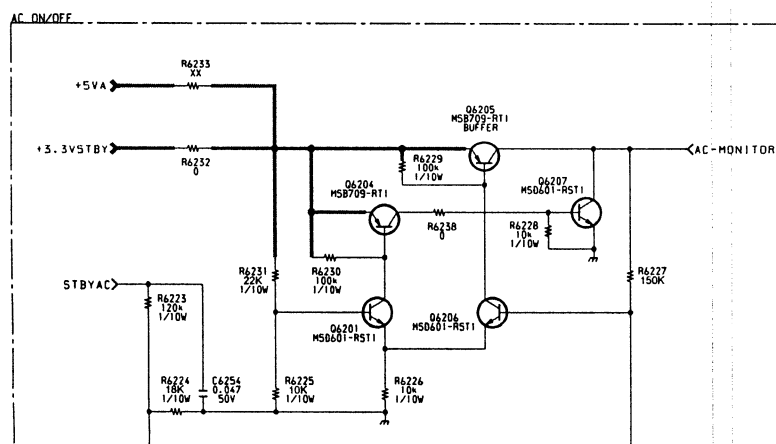
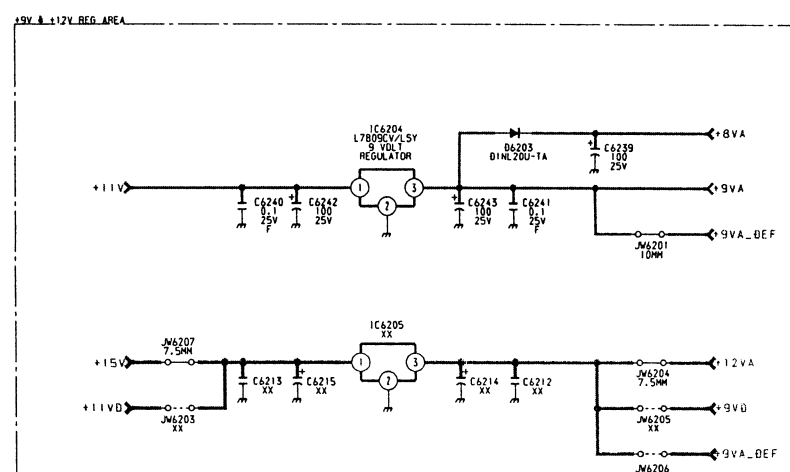
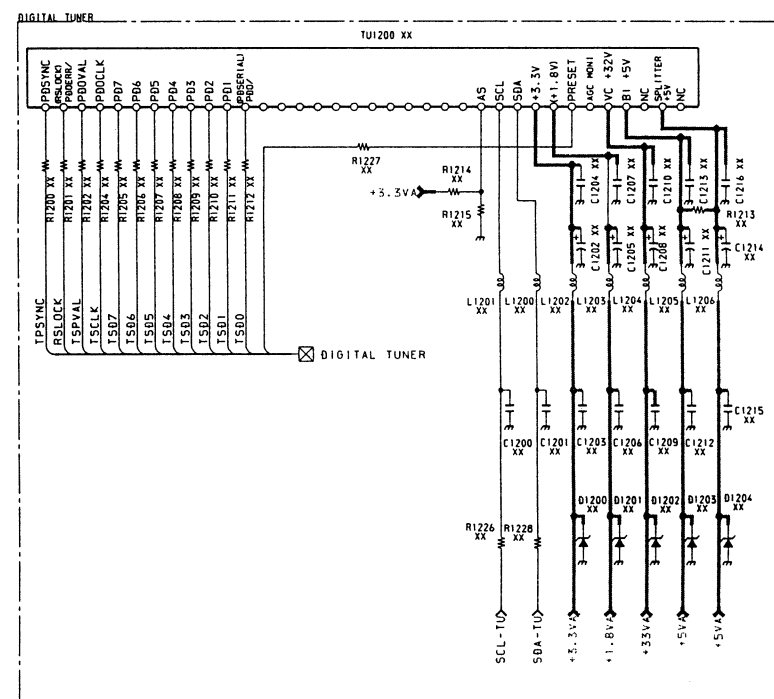
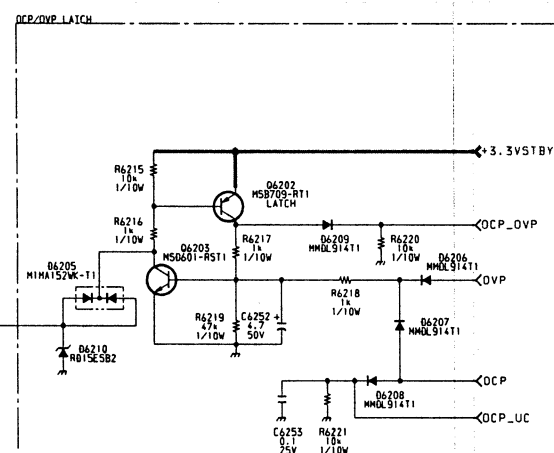
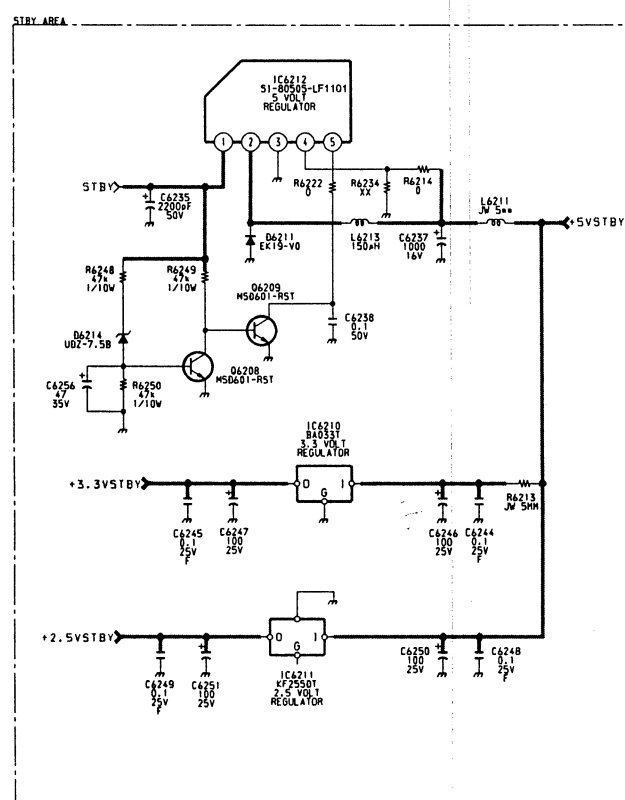
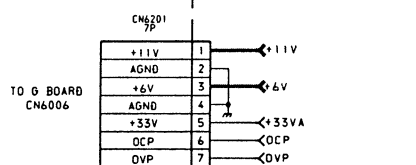
~ A Board Difference Table ~

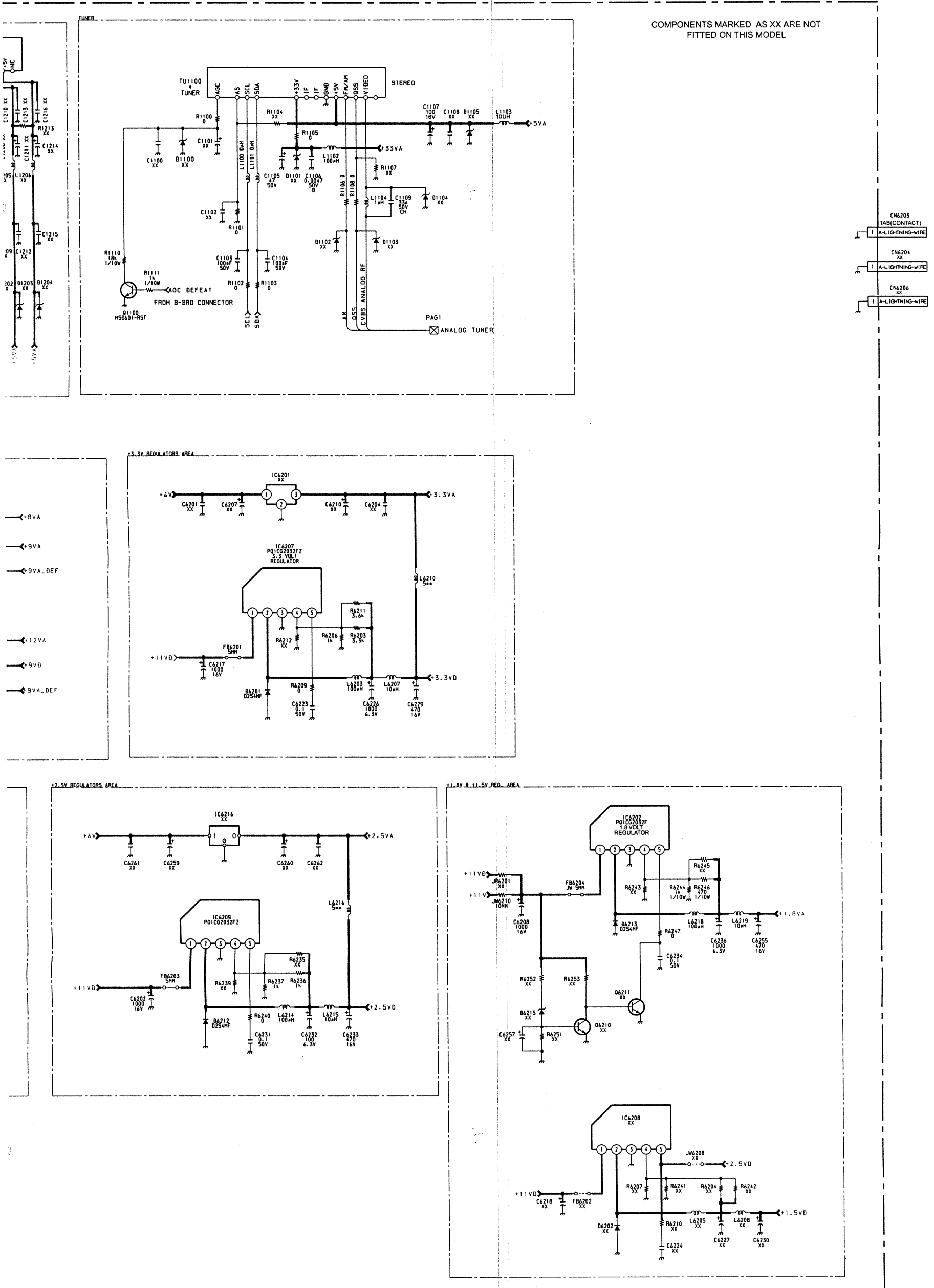
Ref	KV-32FQ85B	KV-32FQ85E
TU1100	BTF-EF411	BTF-EC411

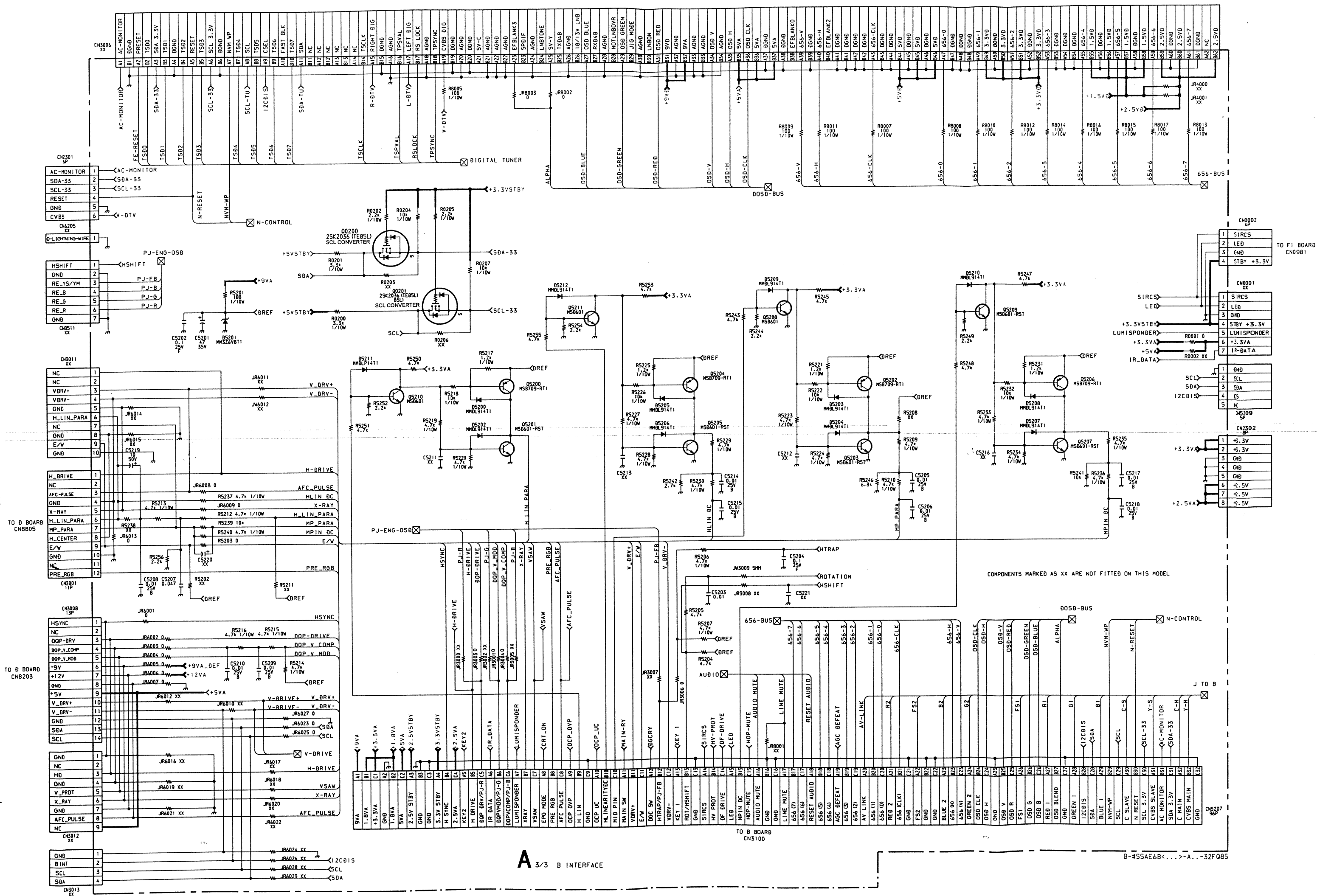




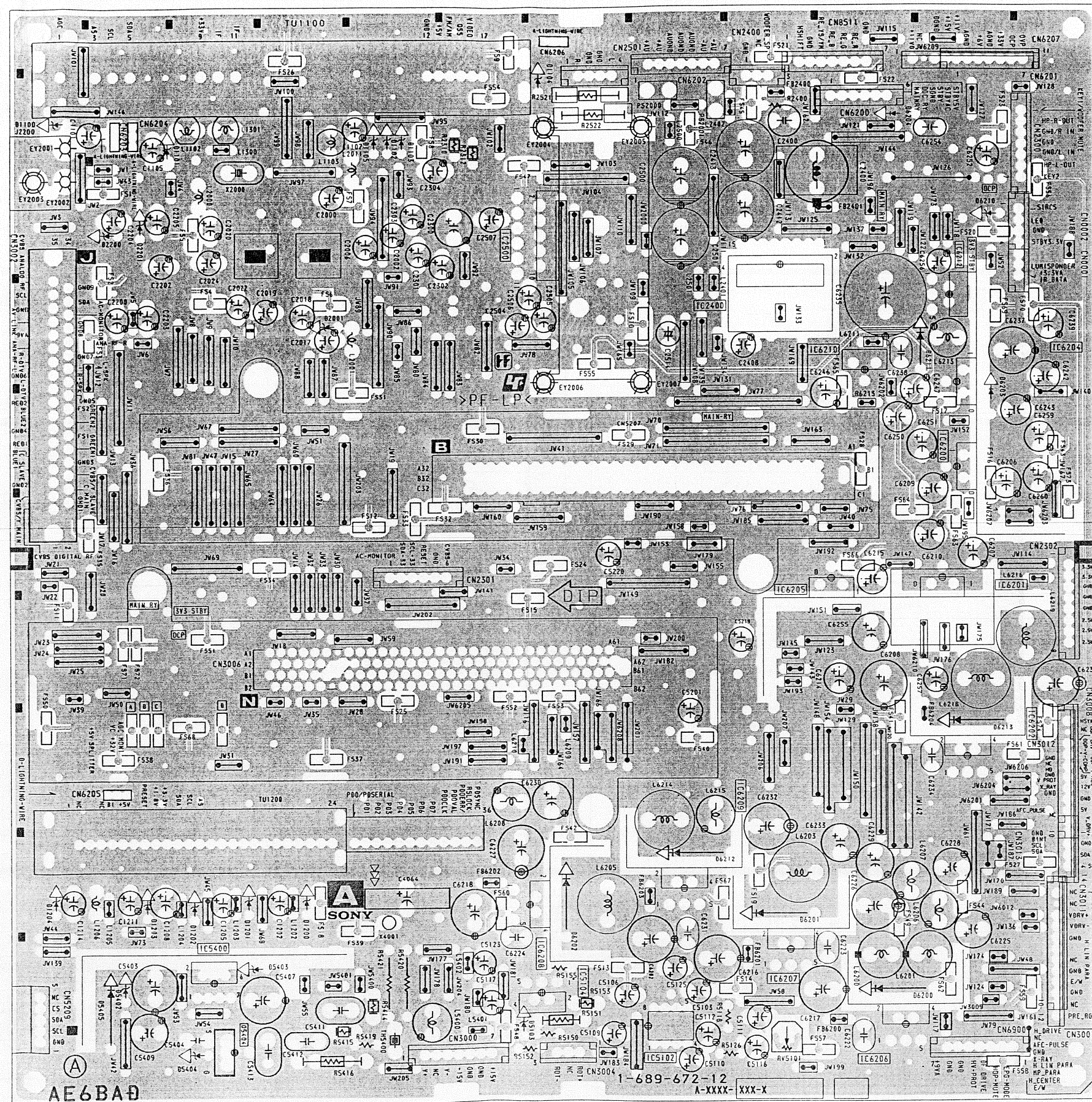








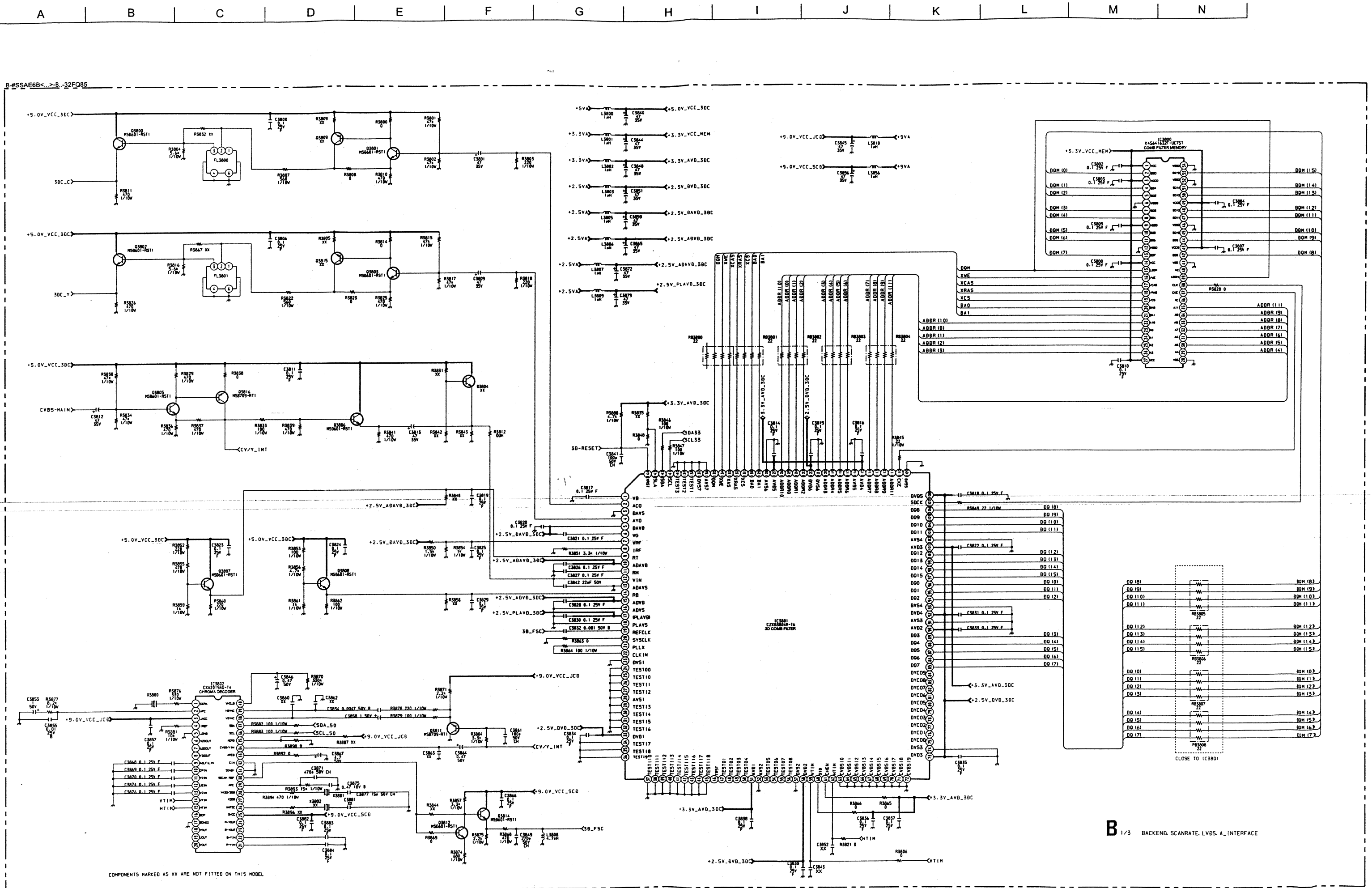






[illegible]



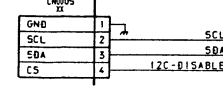
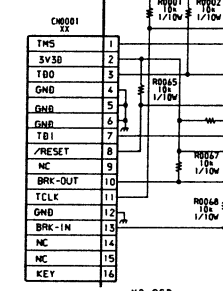
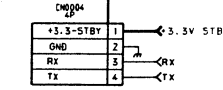


B 1/3 BACKEND, SCANRATE, LVDS, A\_INTERFACE

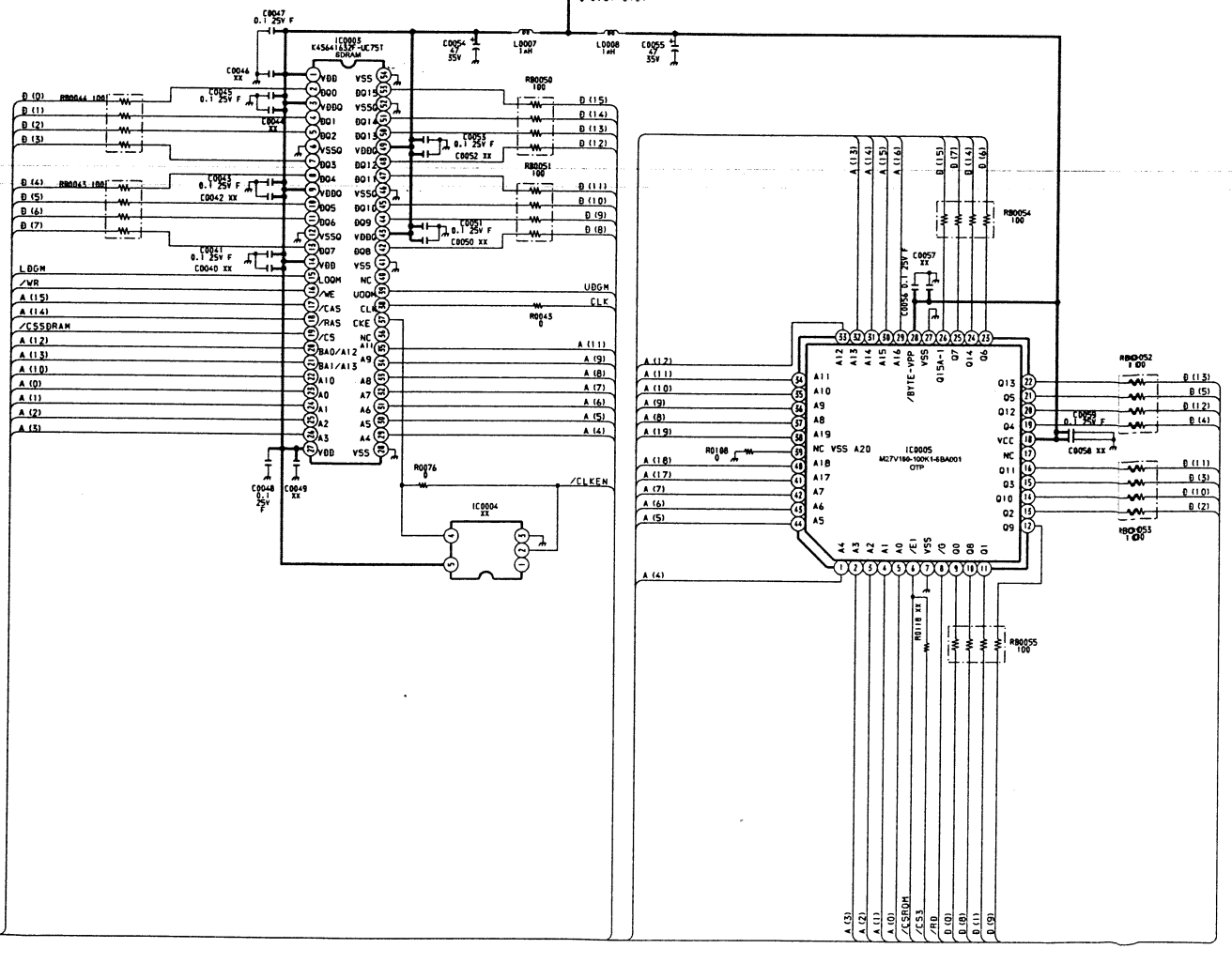
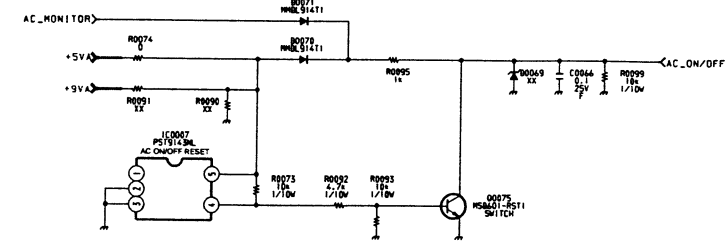




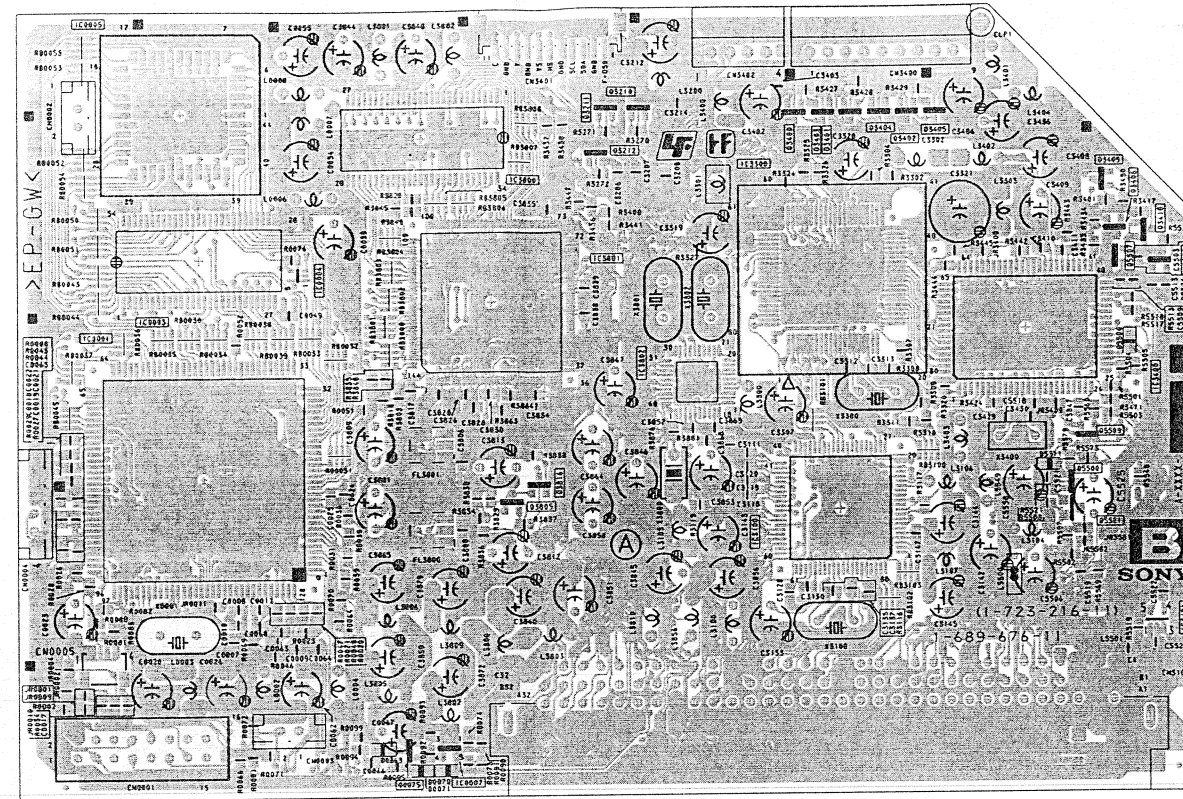
B<sub>5/3</sub>



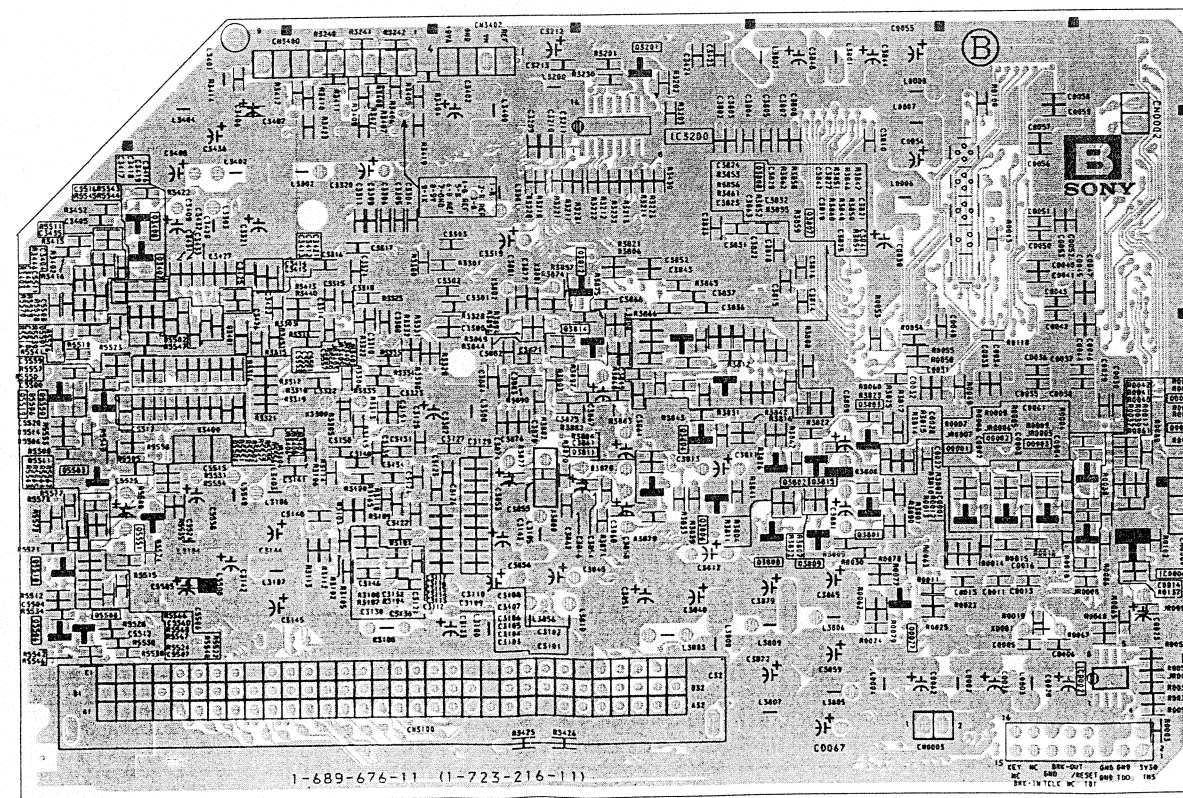
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL



~ B Printed Wiring Board Conductor side A ~



~ B Printed Wiring Board Conductor side B ~



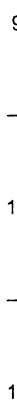
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10  
11



.....



7  
—  
8  
—  
9  
—  
1  
—  
1



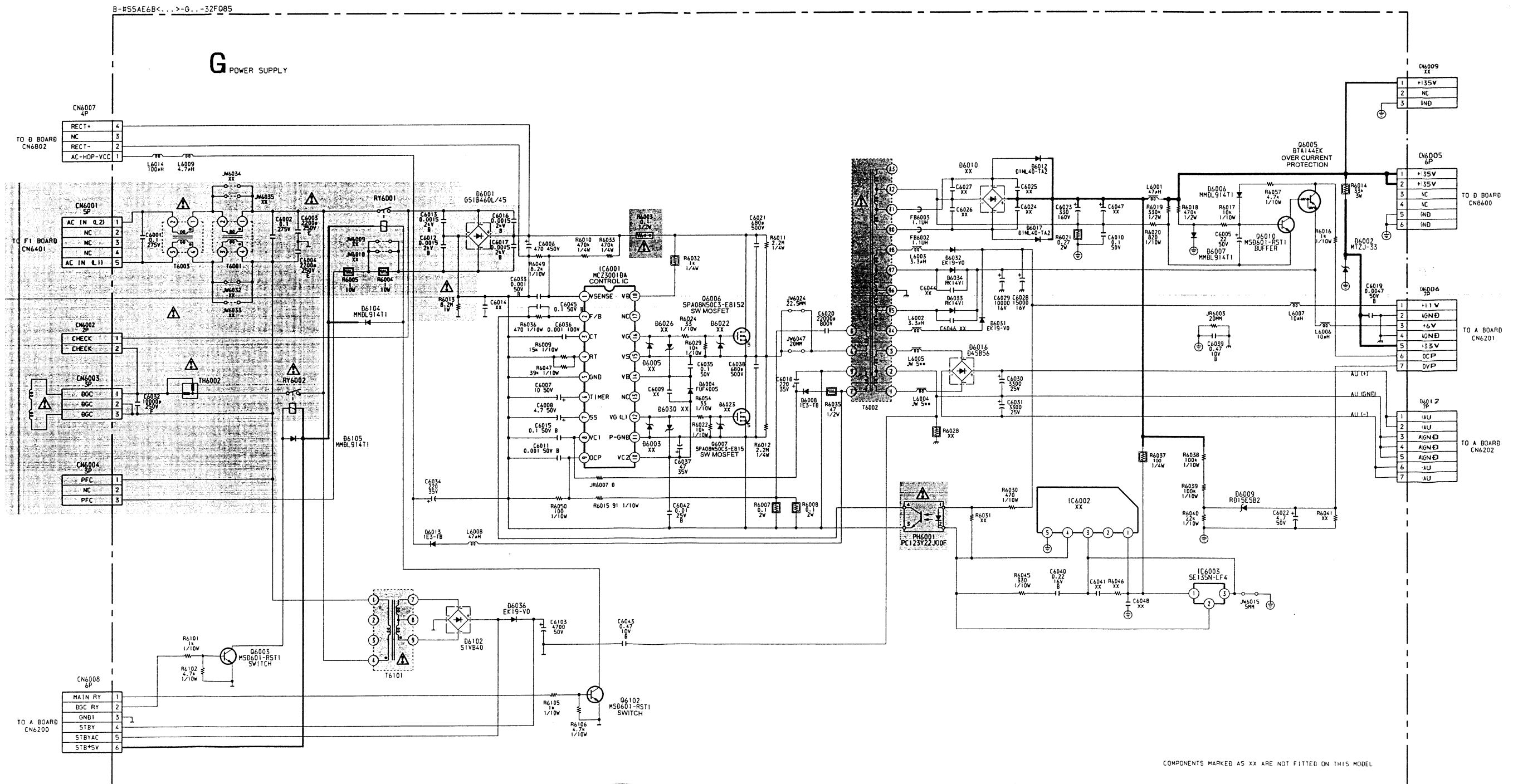
Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)
Q9401	5.1	5.7	8.9	Q9408	4.3	3.6	0
Q9402	3.4	4.3	5.1	Q9409	4.4	5.1	8.9
Q9403	4.4	5.1	8.9	Q9410	4.3	3.6	0
Q9404	4.3	3.6	0	Q9411	4.3	3.6	0
Q9405	4.4	5.1	8.9	Q9412	135.1	1.4.6	70.5
Q9406	4.3	3.6	0	Q9413	0.3	0.9	70.5
Q9407	4.4	5.1	8.9	Q9413	6.6	5.9	2.4

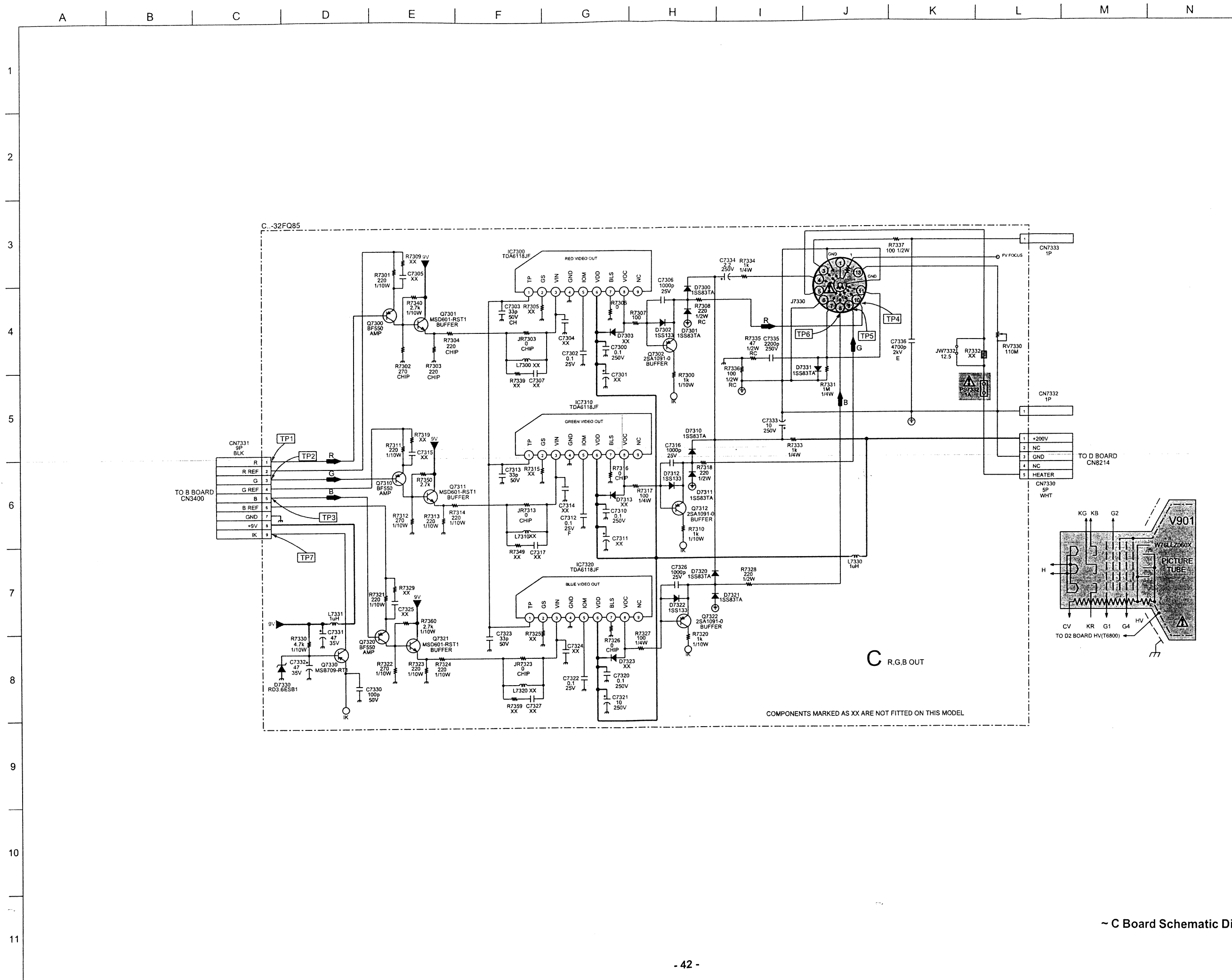
Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)
Q9401	5.1	5.7	8.9	Q9408	4.3	3.6	0
Q9402	3.4	4.3	5.1	Q9409	4.4	5.1	8.9
Q9403	4.4	5.1	8.9	Q9410	4.3	3.6	0
Q9404	4.3	3.6	0	Q9411	4.3	3.6	0
Q9405	4.4	5.1	8.9	Q9412	135.1	1.4,6	70.5
Q9406	4.3	3.6	0	Q9413	0.3	0.9	70.5
Q9407	4.4	5.1	8.9	Q9413	6.6	5.9	2.4





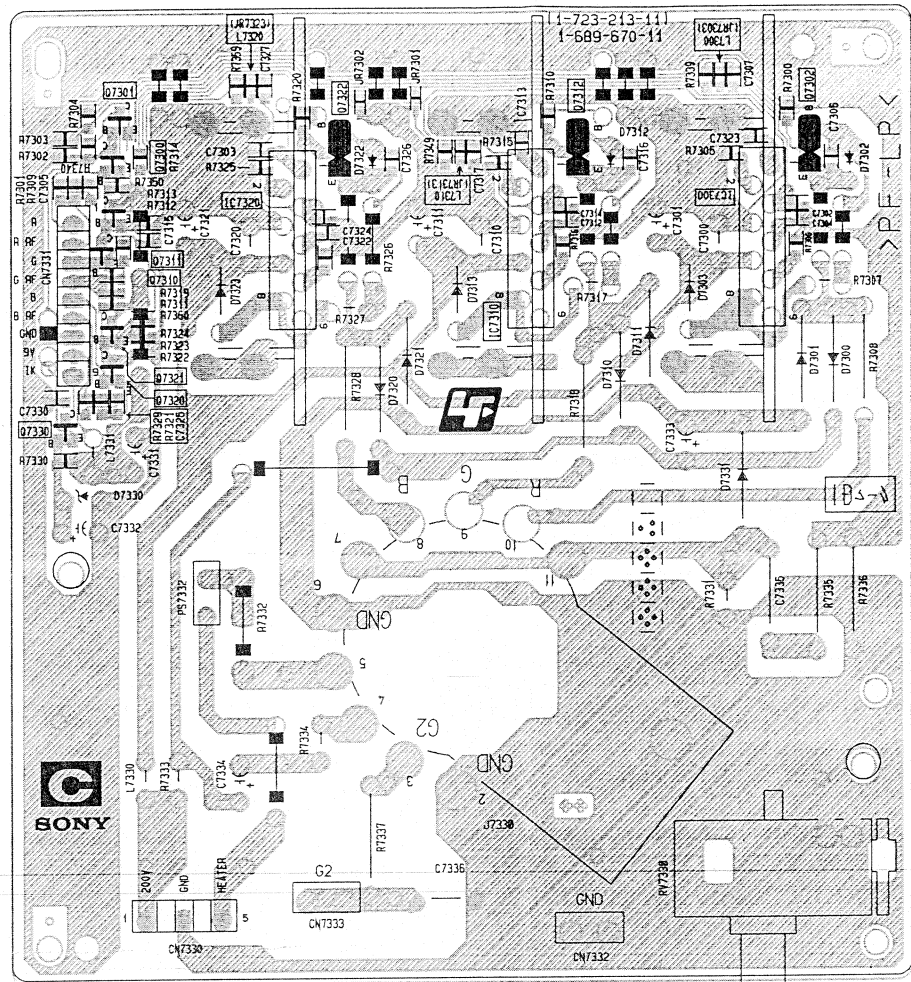
A B C D E F G H I J K L M N



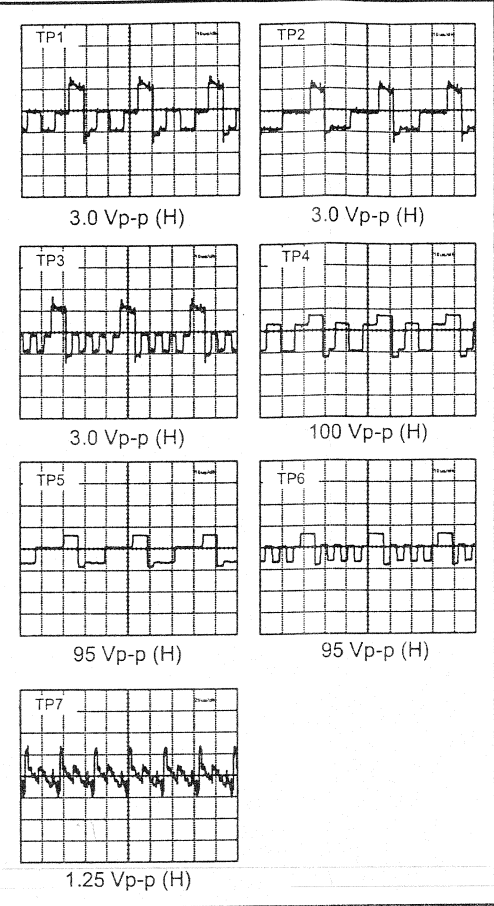




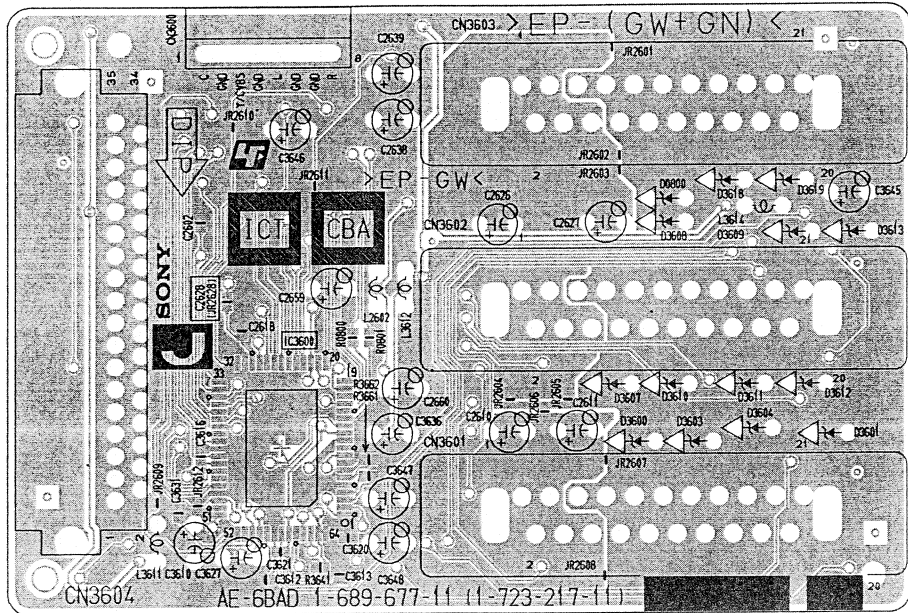
~ C Printed Wiring Board Conductor side ~



~ C Board Waveforms ~



~ J Printed Wiring Board Conductor side A ~



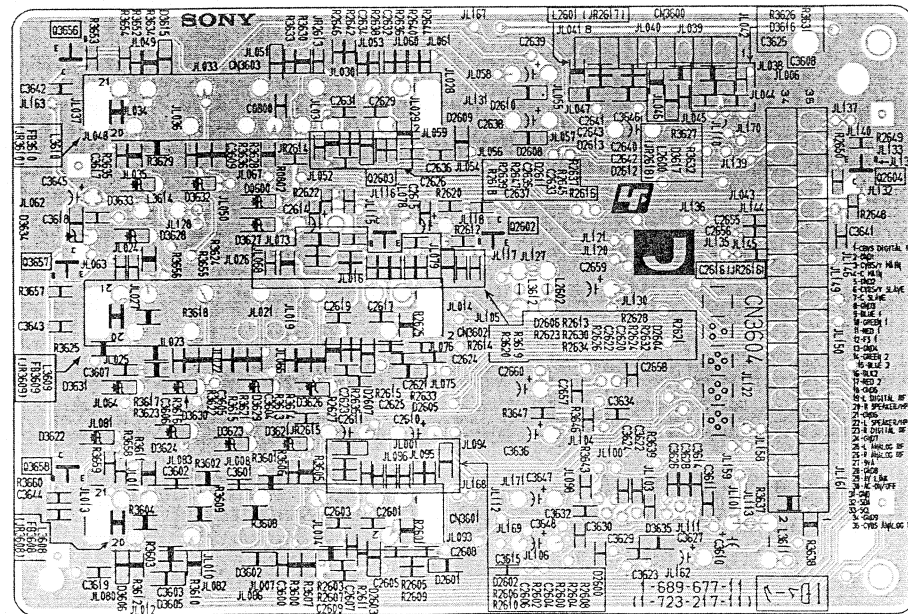
~ C Board Semiconductor Voltage Table ~

Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)
Q7300	7.5	6.9	2.4	Q7312	149.5	149.56	3.8
Q7301	1.8	2.4	8.9	Q7320	7.6	6.9	2.3
Q7302	145.9	147.8	4.0	Q7321	1.7	2.3	8.9
Q7310	7.6	7.0	2.2	Q7322	148.4	150.6	3.8
Q7311	1.6	2.2	8.9	Q7330	3.6	3.2	0

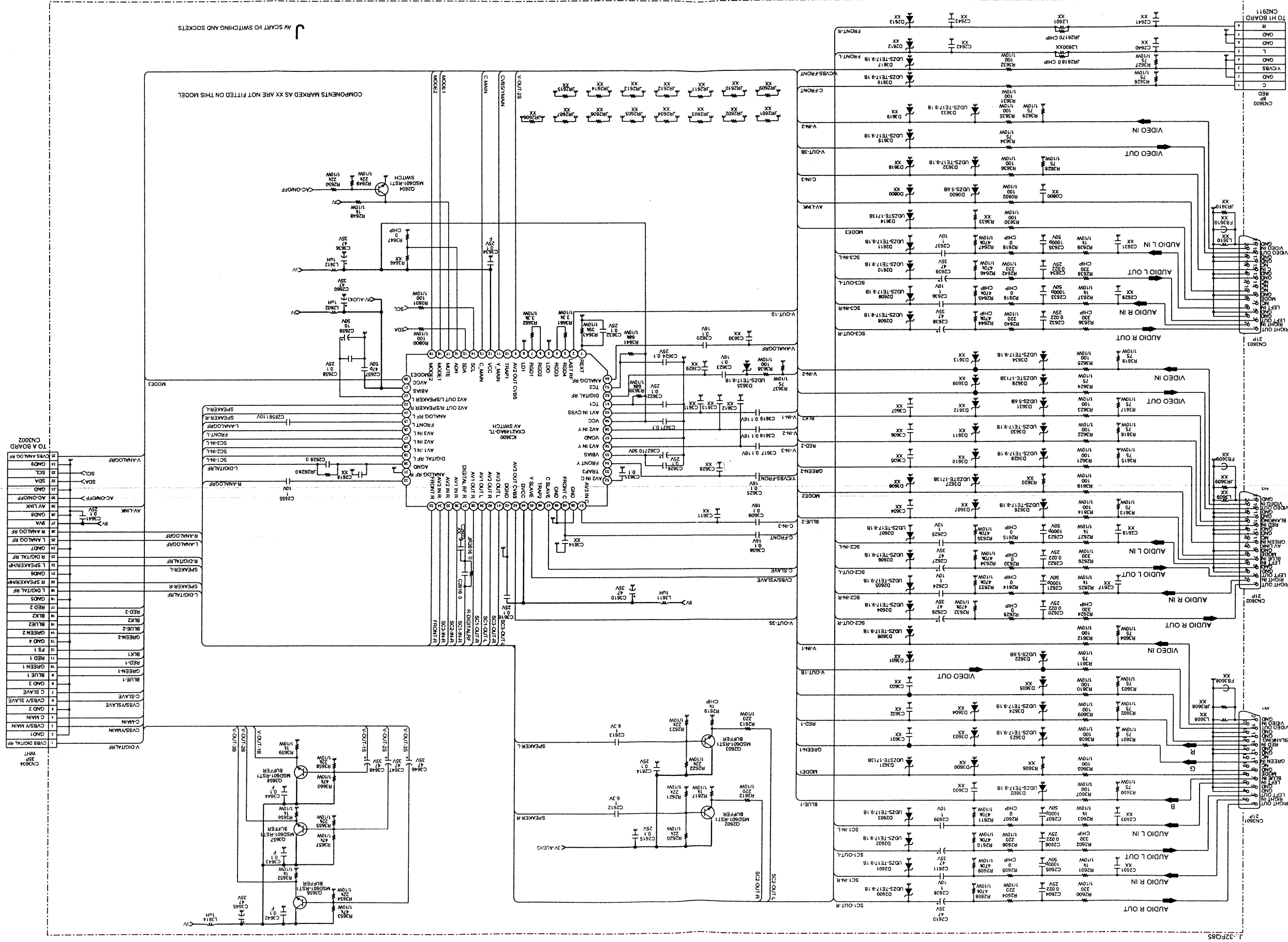
~ C Board IC Voltage Table ~

IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC7300	1	5.3
	2	21.9
	3	1.9
	5	5.9
	6	205.4
	8	147.6
IC7310	1	5.1
	2	0
	3	1.7
	5	5.6
	6	205.4
	8	149.5
IC7320	1	5.1
	2	0
	3	1.8
	5	4.8
	6	205.4
	8	150.4

~ J Printed Wiring Board Conductor side B ~



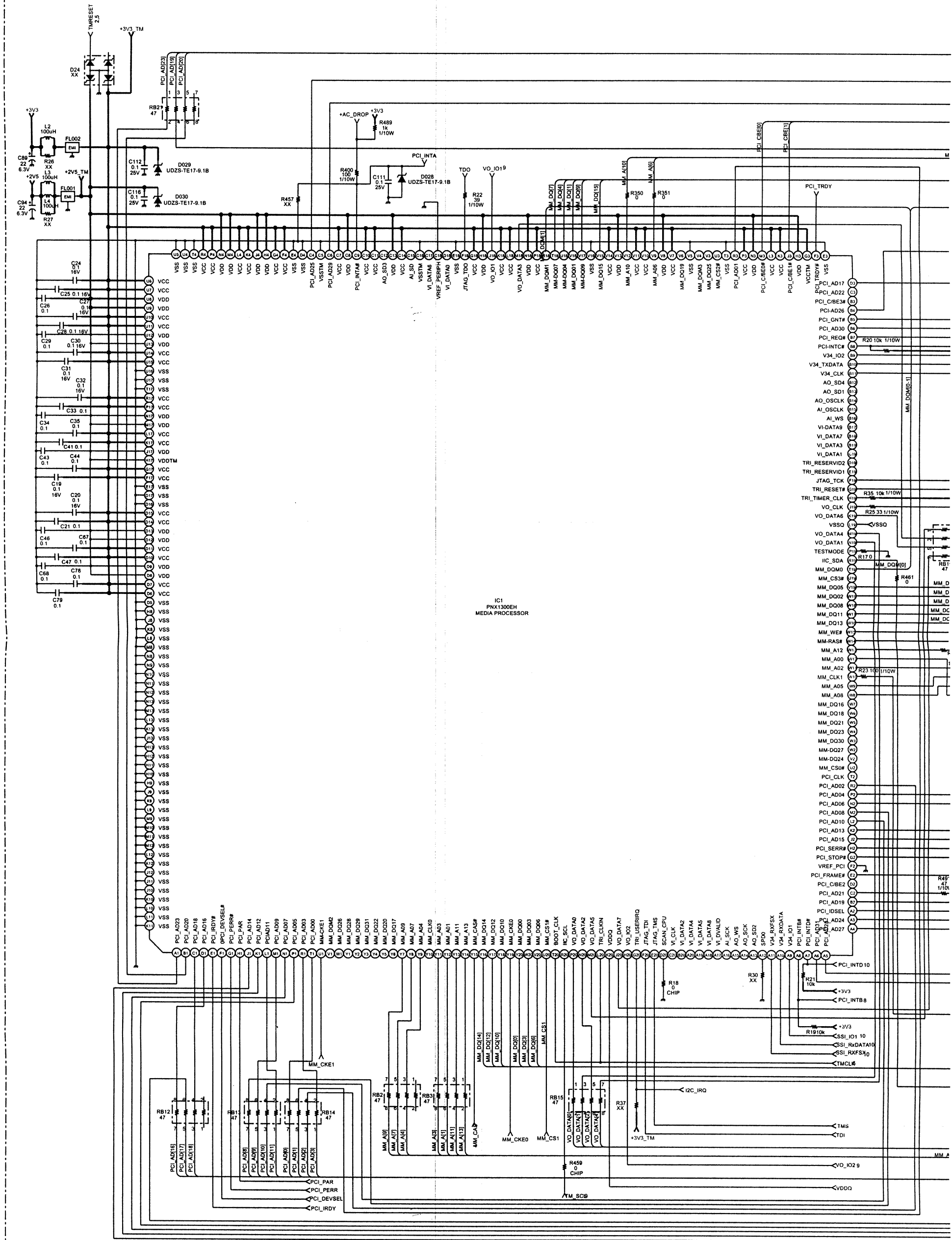
~ J Board Schematic Diagram [ AV Scart I/O Switching and Sockets ] ~





A B C D E F G H

MS-32FQ85



COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

H

I

J

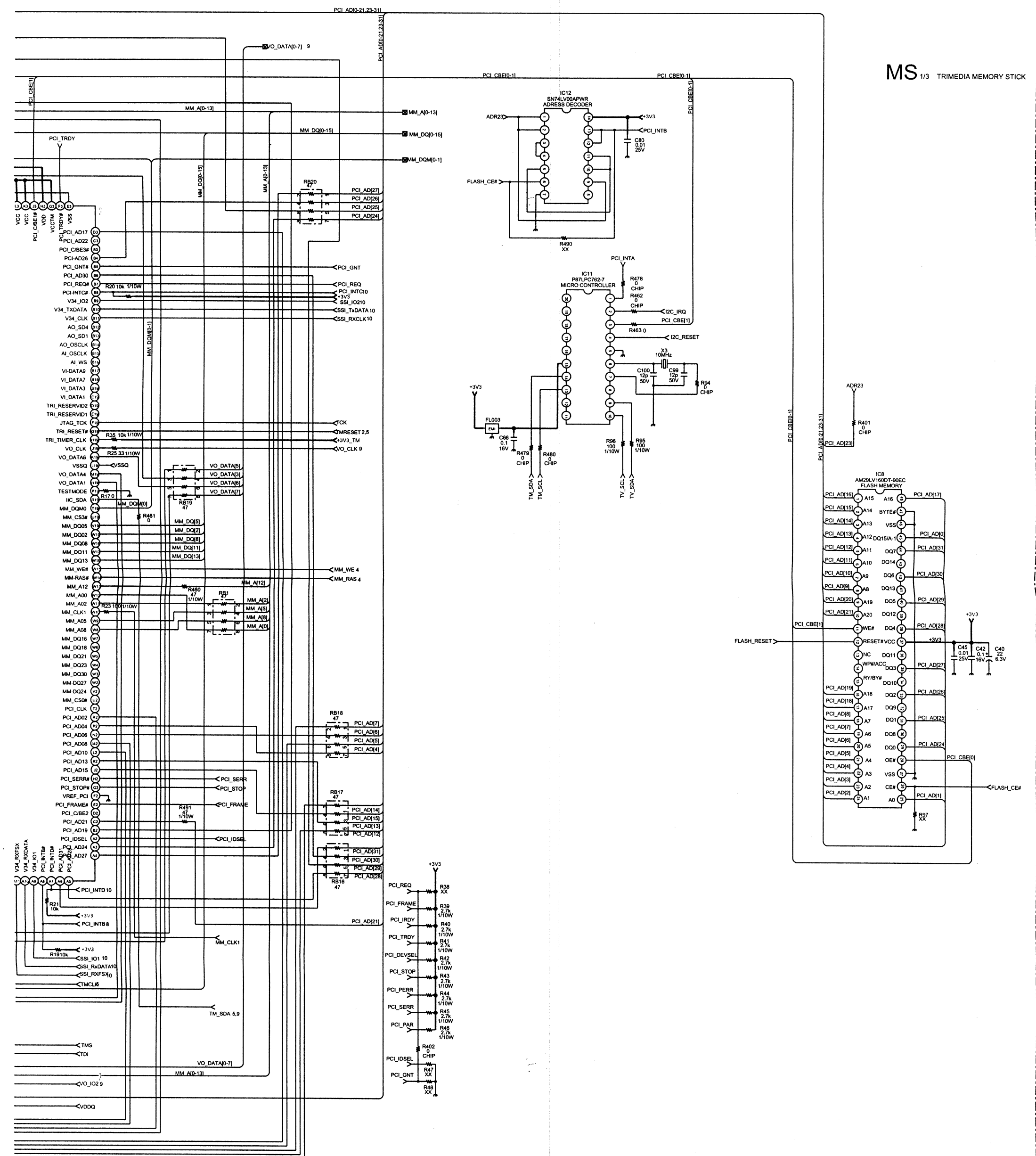
K

L

M

N

MS 1/3 TRIMEDIA MEMORY STICK

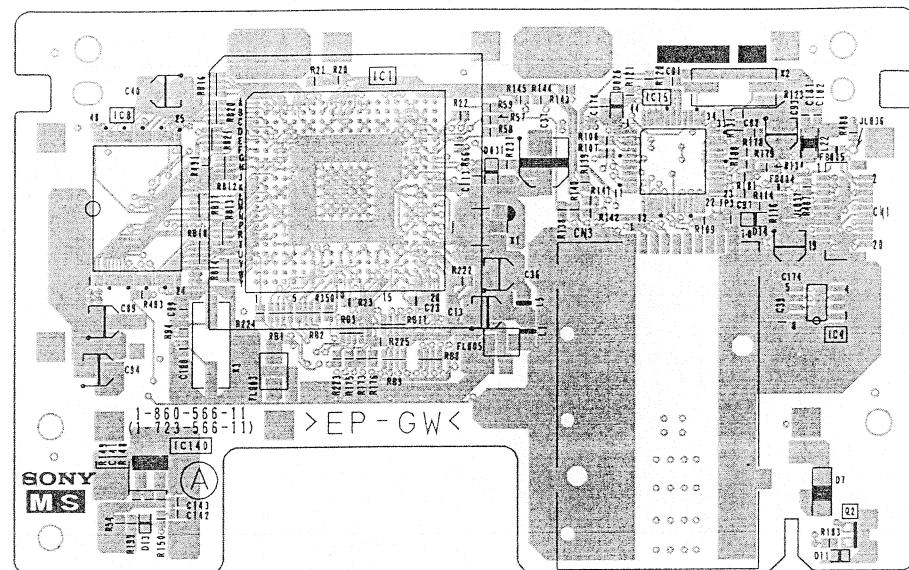




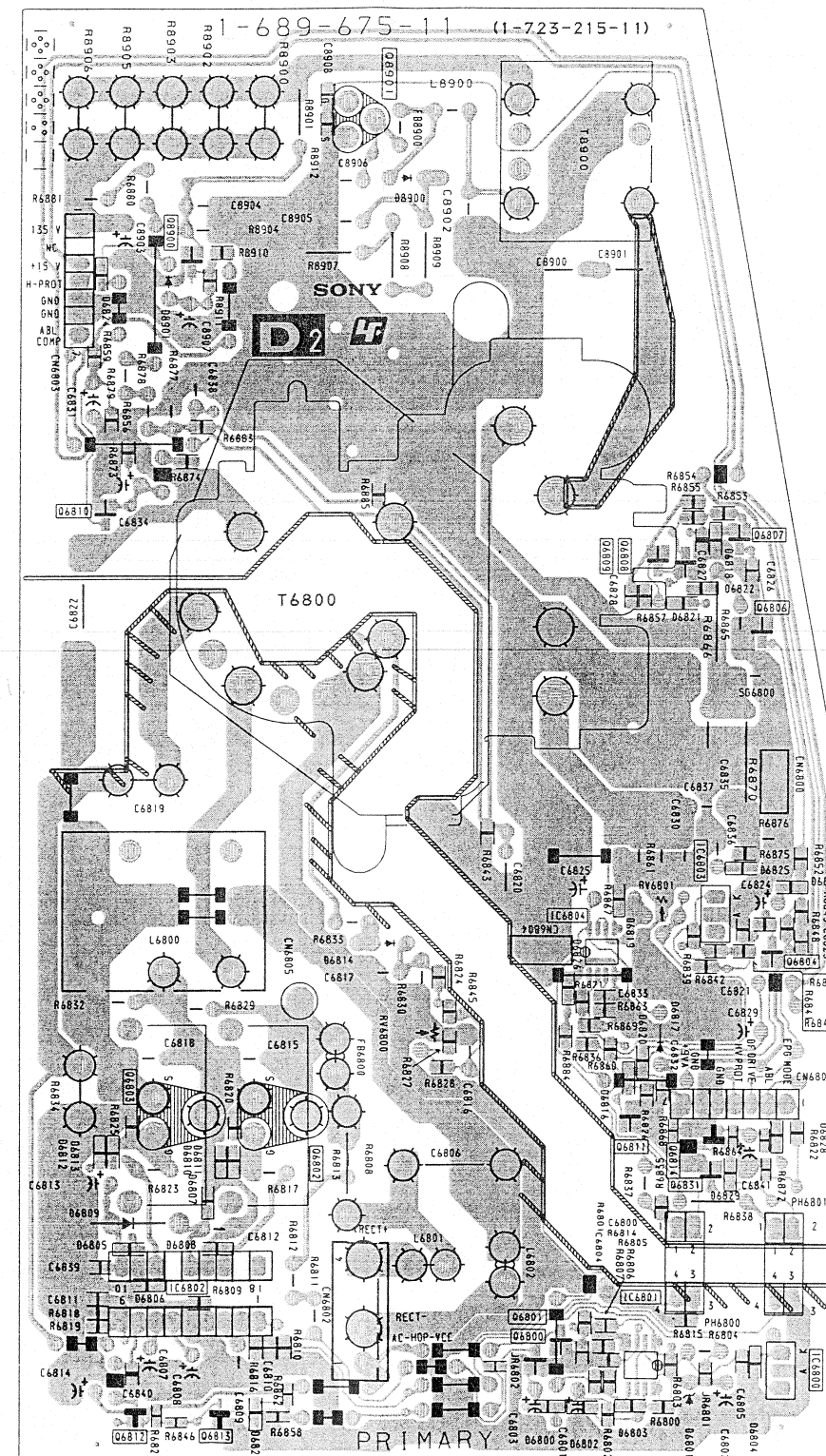
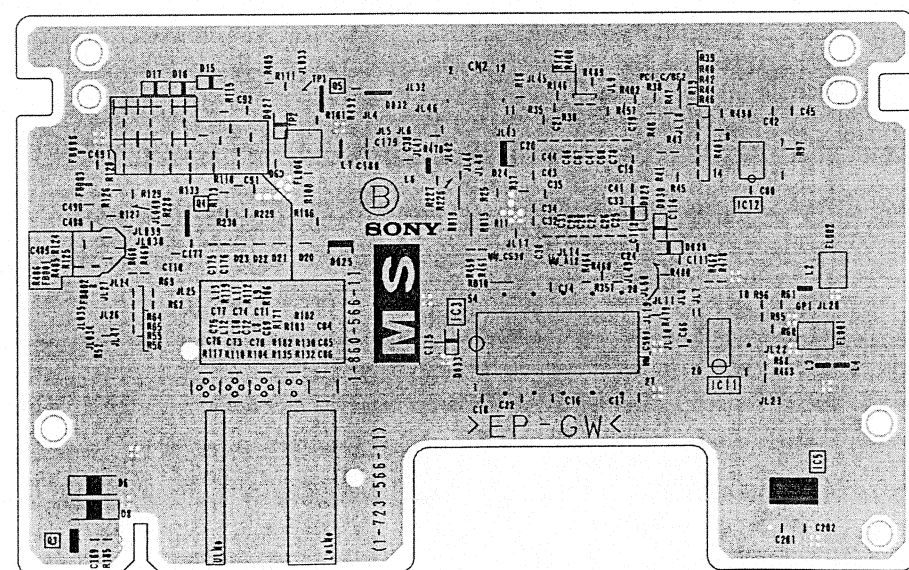


A B C D E F G H I J K L M N

~ MS Printed Wiring Board Conductor side A ~



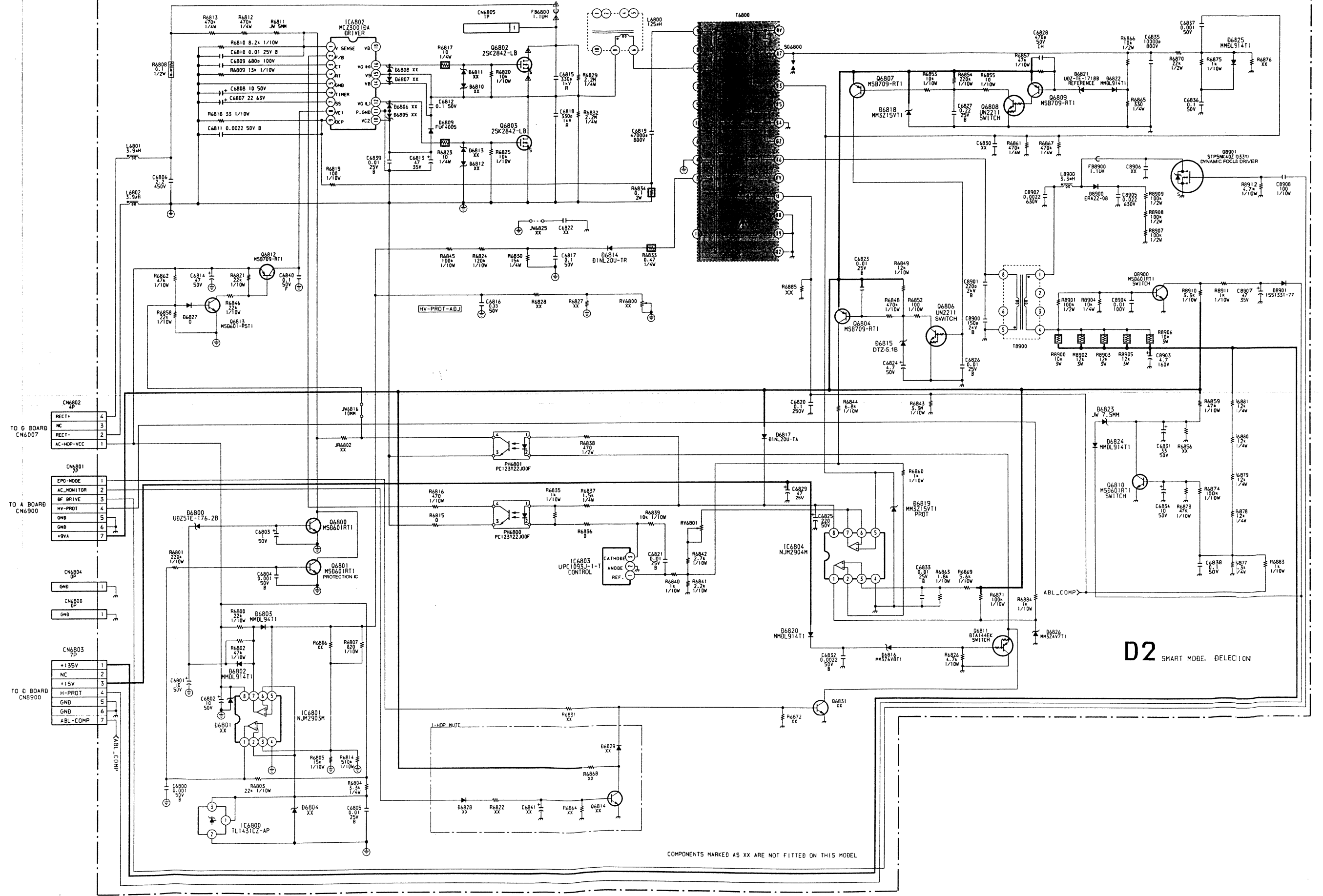
~ MS Printed Wiring Board Conductor side B ~



~ D2 Printed Wiring Board Conductor side ~



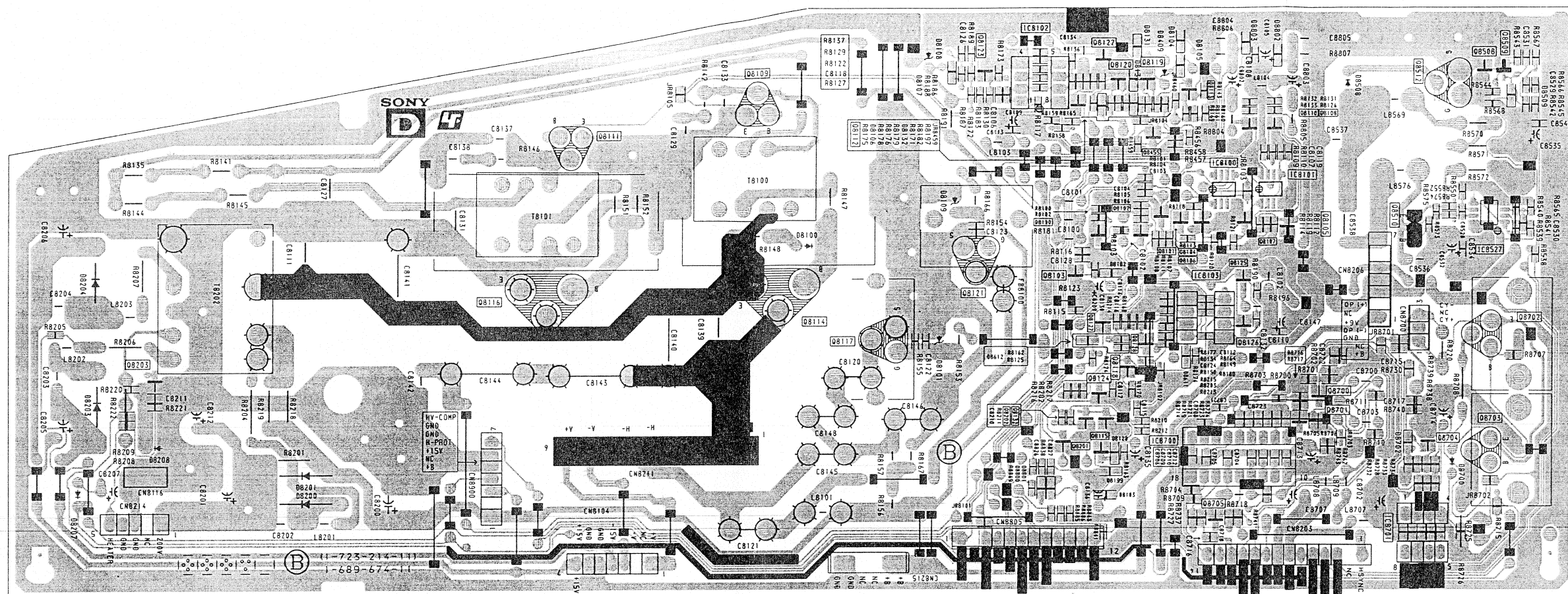
B-SSAE6B<...>D2-32FQ85



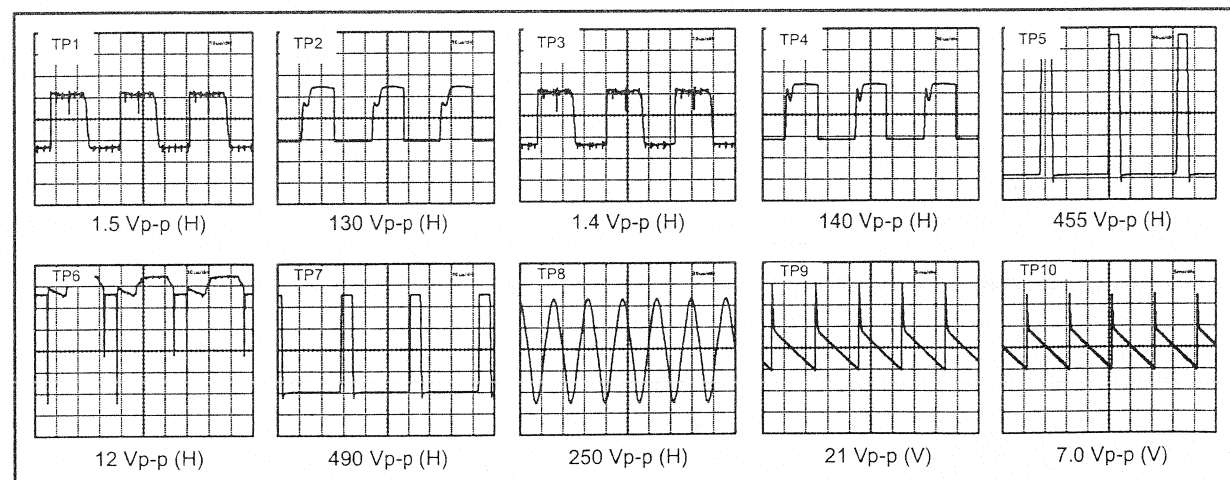
D2 SMART MODE. DELECTION

A B C D E F G H I J K L M N

~ D Printed Wiring Board Conductor side ~



~ D Board Waveforms ~

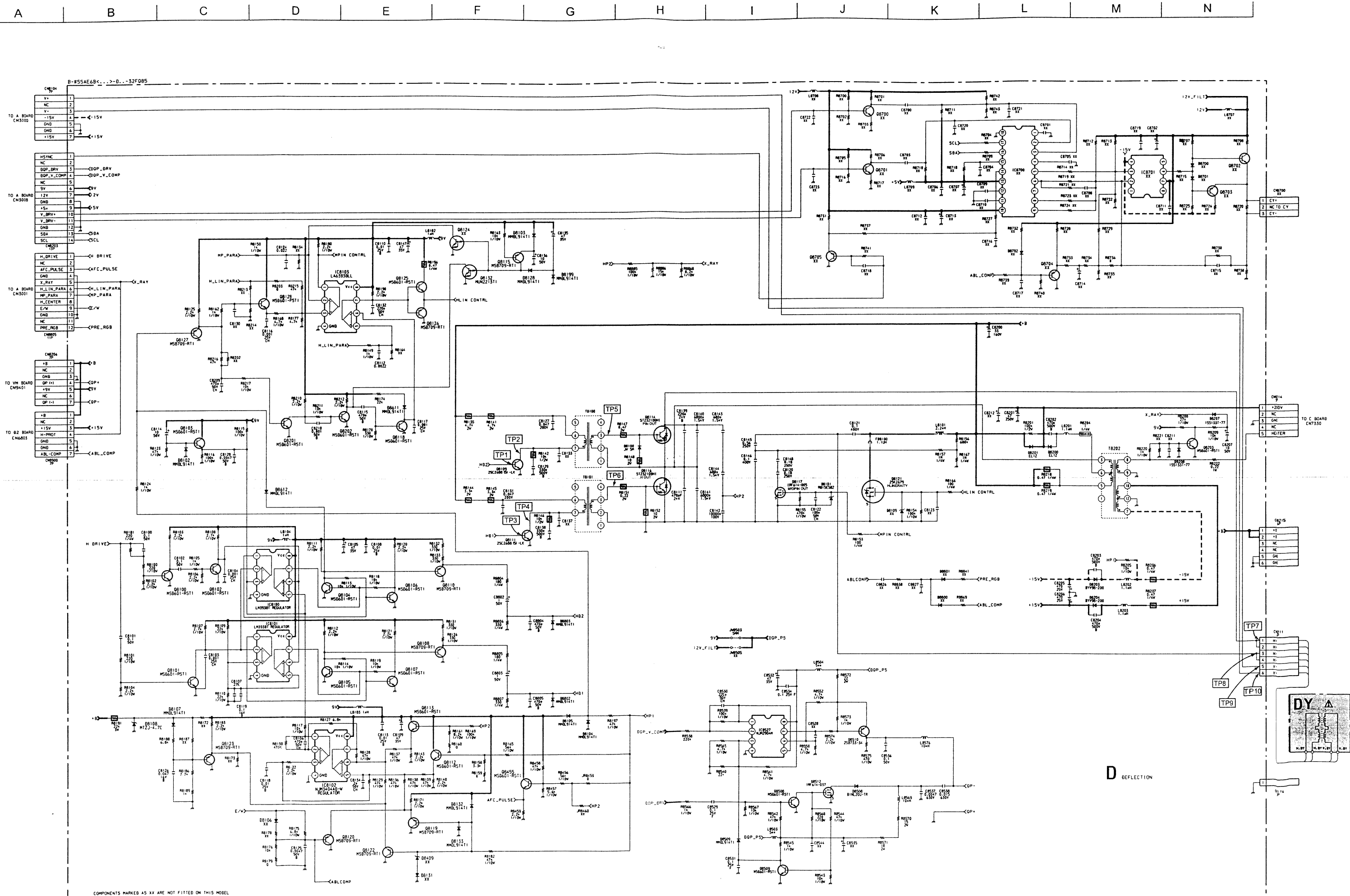


~ D Board IC Voltage Table ~

IC Voltage Table			IC Voltage Table		
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC8100	1	0.3	IC8102	1	3.8
	2	3.9		2	0.4
	3	3.9		3	0.4
	5	3.9		5	0.4
	6	3.6		6	0.4
	7	0.4		7	0.4
	7	0.4		7	0.4
IC8101	1	0.3	IC8103	1	2.5
	2	3.9		2	1.7
	3	3.2		3	1.7
	5	3.2		5	0.9
	6	3.6		6	3.6
	7	3.5		7	1.1
	7	3.5		7	1.1

~ D Board Semiconductor Voltage Table ~

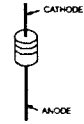
Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)
Q8100	0	0	3.0	Q8110	2.4	3.7	0	Q8125	1.2	1.1	8.9
Q8101	0	0	3.9	Q8111	0	0	62.9	Q8126	1.2	1.1	0
Q8102	0	1.0	3.6	Q8113	0.4	0	8.9	Q8127	1.1	1.5	0
Q8103	3.9	0	8.9	Q8115	8.6	8.9	0	Q8128	3.4	1.5	8.9
Q8104	0	0.3	3.7	Q8118	0	0	3.6	Q8132	0	0	3.6
Q8105	0	3.5	0.3	Q8119	1.2	0.5	0	Q8201	0	0.6	3.7
Q8106	0	0.3	3.9	Q8120	1.3	0.5	0	Q8202	0	0.9	3.7
Q8107	0	0.3	3.9	Q8121	0	1.2	135.2	Q8455	1.2	1.7	8.9
Q8108	2.4	0.3	0	Q8122	0.5	1.4	0	Q8510	8.1	7.5	0.4
Q8109	0	0	58.0	Q8123	0.5	1.3	0	Q8512	0	5.3	32.1



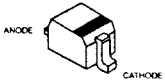


## 5-4. SEMICONDUCTORS

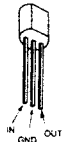
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EL1Z  
ERA22-08  
GP08D  
FUF4005  
HZS9.1NB2  
MTZJ-33B  
MTZJ-4.7C



1PS184-115  
MM3Z4V7T1  
MM3Z6V8T1  
MM3Z9V1ST1  
MM3Z15VT1  
MMDL914T1  
UDZSTE-1713B  
UDZSTE-1718B  
UDZSTE-173.9B  
UDZSTE-175.6B  
UDZSTE-176.2B  
UDZSTE-179.1B  
UDZSTE-17-7.5B



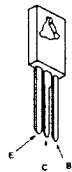
2SA1091-O



2SB734-34



2SC2688(5)-LK



2SK2036(TE85L)  
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DTC144EKA  
MSB709-RT1  
MSD601-RST1  
M1MA152WA-T1  
UN2111



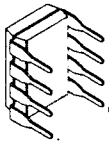
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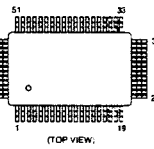
BYV98-200-RAS 15/12



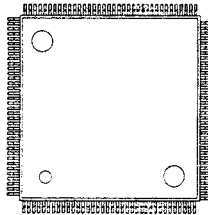
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LA6393DLL



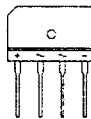
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CXA2149AQ-TL



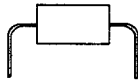
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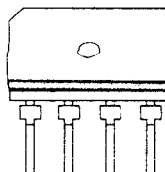
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S1VB40



D2S4MF



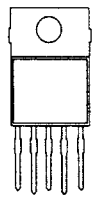
GS1B460/45



L7809CV/LSY  
STP5NK40Z(033Y)  
ST2310DHI



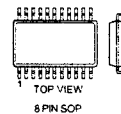
LA6500-FA



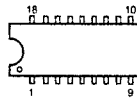
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LM358N



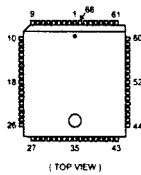
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SN74LV00APWR  
TDA2822D013TR



MCZ3001D



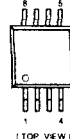
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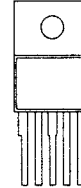
NJM290M



NJM3404AD-W  
UPC4558G2



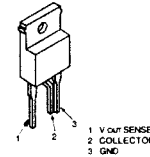
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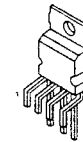
PST9143NL



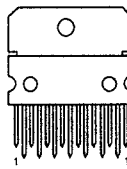
SE135N-LF4



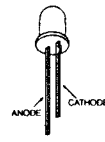
STV9379



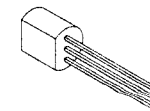
TDA7482  
TDA7269



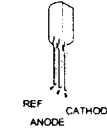
TLHK5190



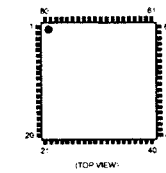
TL1431CZ-AP



UPC1093J-1-T

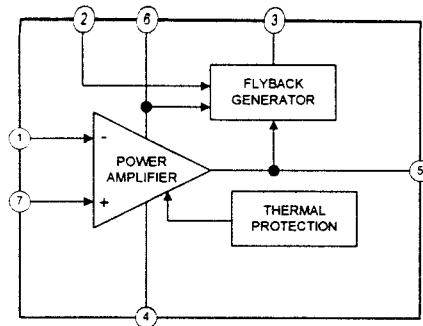


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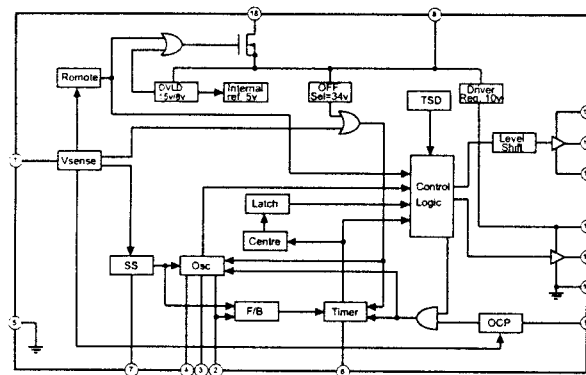


## 5-5. IC BLOCK DIAGRAMS

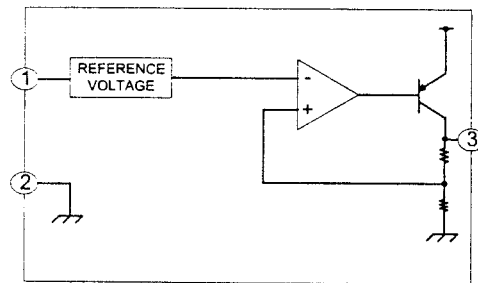
A BOARD IC5400 STV9379A



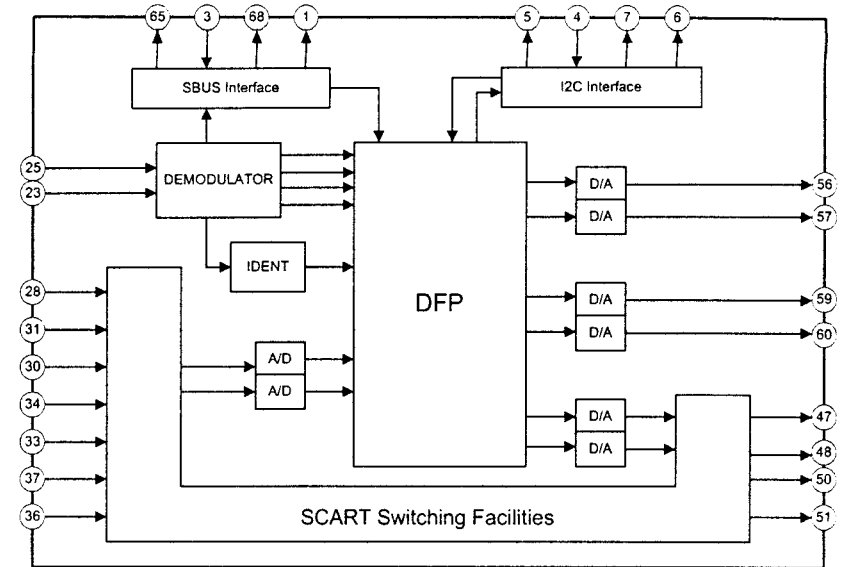
G BOARD IC6001 MCZ3001D



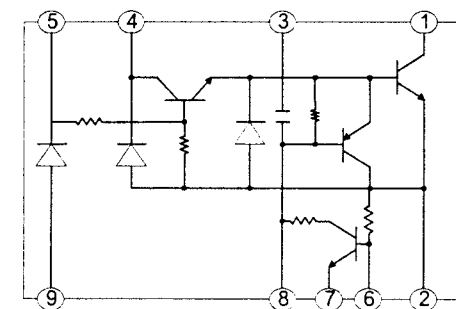
A BOARD IC6210 BA033T



A BOARD IC2000 MSP3411G



G BOARD IC6003 SE135N-LF4



## SECTION 6 EXPLODED VIEWS

### NOTE :

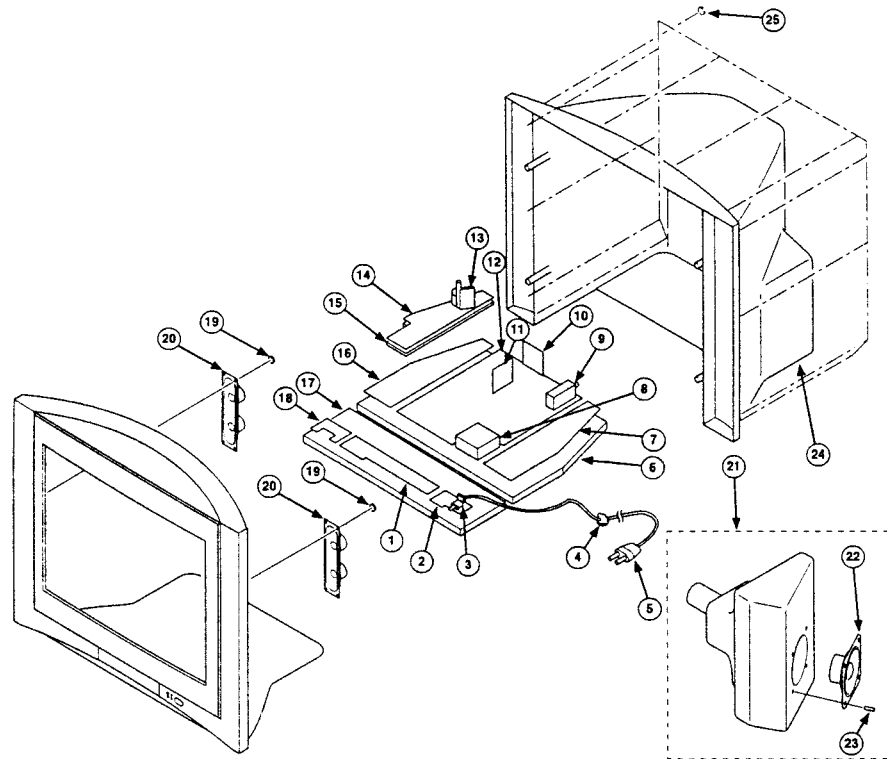
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note : Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces du numéro spécifié.

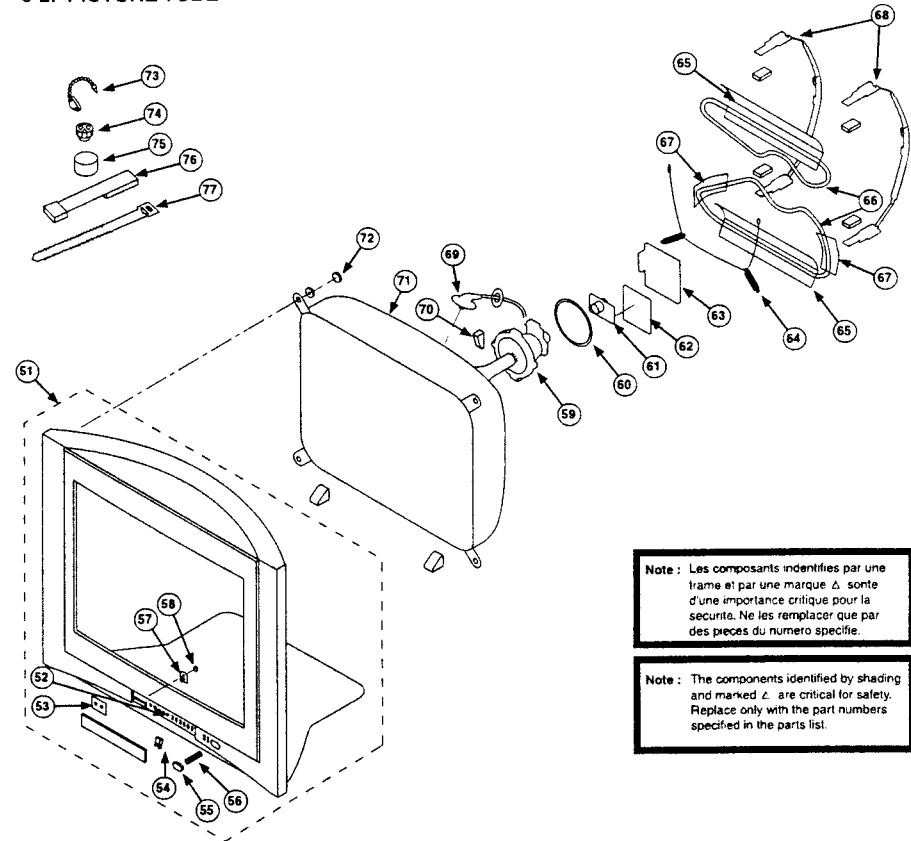
Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

### 6-1. CHASSIS



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
1	*A-1405-609-A	R1 BOARD, COMPLETE		13	Δ 1-453-444-21	TRANSFORMER ASSY, FLYBACK (XK-6020/Y2B4)	
2	*A-1405-611-A	F1 BOARD, COMPLETE		14	*A-1302-549-A	D2 BOARD, COMPLETE	
3	Δ 1-571-433-21	SWITCH, PUSH (AC POWER)		15	*4-095-738-01	BRACKET, D2	
4	*4-202-531-01	AC CORD LOCK (SC)		16	*A-1302-335-A	D BOARD, COMPLETE	
5	Δ *1-783-083-11	CORD, POWER (WITH FILTER)		17	*4-093-896-01	BRACKET, H	
6	*4-095-739-01	BRACKET, MAIN		18	*A-1410-247-A	MS BOARD, COMPLETE	
7	A-1302-334-A	G BOARD, COMPLETE		19	4-050-870-01	SCREW (4x16)W(+)*P TAPPING	
8	1-424-855-11	COIL, CROCK 290GE		20	1-529-408-11	SPEAKER (4.2x24CM)	
9	8-600-535-20	FRONT END BTF-EP411 (KV-32P085B)		21	*A-1603-084-A	WOOPER COMPLETE ASSY 72-23	
	8-596-533-10	FRONT END BTF-BC411 (KV-32P085B)		22	1-529-417-11	SPEAKER (8CM)	
10	*A-1405-623-A	J BOARD, COMPLETE		23	7-685-663-71	SCREW +BVTIP 4x16 TYPE2 IT-3	
11	*A-1302-336-A	B BOARD, COMPLETE		24	4-093-896-01	REAR COVER	
12	*A-1302-550-A	A BOARD, COMPLETE (KV-32P085B)		25	7-685-646-79	SCREW +BVTIP 3x12 TYPE2 IT-3	
	*A-1302-333-A	A BOARD, COMPLETE (KV-32P085B)					

### 6-2. PICTURE TUBE



Note : Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces du numéro spécifié.

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
51	X-4041-762-1	REZNET ASSY	52-58	65	*4-095-593-01	CUSHION, DGC	
52	*4-087-533-01	MULTIBUTTON		66	Δ 1-424-888-11	COIL, DEGAUSSING	
53	4-087-530-01	GUIDE, LIGHT		67	*4-392-534-21	CUSHION, DGC	
54	4-085-507-03	SPRING, DOOR		68	*4-204-768-02	HOLDER, DGC (29")	
55	4-087-527-01	POWER BUTTON		69	Δ 1-251-946-11	CAP ASSY, HIGH-VOLTAGE	
56	4-204-426-01	SPRING		70	3-704-495-01	SPACER, DY	
57	4-087-528-01	W/S GUIDE, LIGHT		71	Δ 8-735-079-05	PICTURE TUBE (W7ALL2060X)	
58	7-685-648-79	SCREW +BVTIP 3x12 TYPE2 IT-3		72	4-046-765-12	SCREW, TAPPING 7+CROWN WASHER	
59	Δ 1-451-480-22	DEFLECTION YOKE (Y32NVC2)		73	4-308-870-00	CLIP, LEAD WIRE	
60	1-419-363-11	COIL, NA ROTATION		74	1-452-094-00	MAGNET, ROTABLE DISK; 15MM Ø	
61	Δ 8-753-011-11	RECK ASSY (M0299-M)		75	1-452-032-00	MAGNET, DISK; 10MM Ø	
62	*A-1405-620-A	VN BOARD, COMPLETE		76	X-4387-214-1	PERMALLOY, CORRECTION	
63	*A-1405-610-A	C BOARD, COMPLETE		77	3-701-007-00	BAND, BINDING	
64	4-369-318-21	SPRING, TENSION					

## PARTS LISTING TABLE OF CONTENTS

**Note :** Refer to the designated variant parts list when seeking a part indicated by an asterisk (\*)  
Parts indicated (XX) on the Schematic Diagram are not used in this model and therefore do not appear in the Parts List.

**Note :** The components identified by shading and marked  $\Delta$  are critical for safety. Replace only with the part numbers specified in the parts list.

**G**

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Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

G

D

D

REF.NO.	PART.NO.	DESCRIPTION	REMARK
Q6005	8-729-901-06	TRANSISTOR DTA142K	
Q6006	6-550-698-01	TRANSISTOR SPA08NS0C3-E8152	
Q6007	6-550-698-01	TRANSISTOR SPA08NS0C3-E8152	
Q6010	8-729-010-29	TRANSISTOR MSD601-RST1	
Q6102	8-729-010-29	TRANSISTOR MSD601-RST1	
< RESISTOR >			
JR6007	1-216-864-11	SHORT CHIP	0
R6003	Δ 1-202-933-61	PUSIBLE	0.1 10% 1/2W
R6004	Δ 1-205-998-11	CEMENTED	1 5% 10W
R6005	Δ 1-205-998-11	CEMENTED	1 5% 10W
R6007	1-243-979-21	METAL OXIDE	0.1 5% 2W
R6008	1-243-979-21	METAL OXIDE	0.1 5% 2W
R6009	1-218-875-11	METAL CHIP	15K 0.5% 1/10W
R6010	1-245-478-21	METAL	470K 1% 1/4W
R6011	1-245-494-21	METAL	2.2M 2% 1/4W
R6012	1-245-494-21	METAL	2.2M 2% 1/4W
R6013	Δ 1-218-245-11	METAL	8.2K 5% 1W
R6014	1-243-624-21	METAL OXIDE	33K 5% 3W
R6015	1-211-992-11	METAL CHIP	91 0.5% 1/10W
R6016	1-216-821-11	METAL CHIP	1K 5% 1/10W
R6017	1-216-833-11	METAL CHIP	10K 5% 1/10W
R6018	1-260-131-11	CARBON	470K 5% 1/2W
R6019	1-260-129-11	CARBON	330K 5% 1/2W
R6020	1-216-820-11	METAL CHIP	820 5% 1/10W
R6021	1-243-946-21	METAL OXIDE	0.27 5% 2W
R6022	1-216-833-11	METAL CHIP	10K 5% 1/10W
R6024	1-211-981-11	METAL CHIP	33 0.5% 1/10W
R6029	1-216-833-11	METAL CHIP	10K 5% 1/10W
R6030	1-216-817-11	METAL CHIP	470 5% 1/10W
R6032	1-249-417-11	CARBON	1K 5% 1/4W
R6033	1-245-478-21	METAL	470K 1% 1/4W
R6035	1-260-083-11	CARBON	47 5% 1/2W
R6036	1-216-817-11	METAL CHIP	470 5% 1/10W
R6037	1-249-405-91	RES, CARBON	100 5% 1/4W
R6038	1-218-895-11	METAL CHIP	100K 0.5% 1/10W
R6039	1-218-895-11	METAL CHIP	100K 0.5% 1/10W
R6040	1-218-879-11	METAL CHIP	22K 0.5% 1/10W
R6045	1-216-815-11	METAL CHIP	330 5% 1/10W
R6047	1-218-885-11	METAL CHIP	39K 0.5% 1/10W
R6049	1-218-869-11	METAL CHIP	8.2K 0.5% 1/10W
R6050	1-218-823-11	METAL CHIP	100 0.5% 1/10W
R6054	1-211-981-11	METAL CHIP	33 0.5% 1/10W
R6057	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R6102	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R6105	1-216-821-11	METAL CHIP	1K 5% 1/10W
R6106	1-216-829-11	METAL CHIP	4.7K 5% 1/10W

REF.NO.	PART.NO.	DESCRIPTION	REMARK
< RELAY >			
RY6001	Δ 1-755-388-11	RELAY (AC POWER)	
RY6002	Δ 1-755-388-11	RELAY (AC POWER)	
< TRANSFORMER >			
T6001	Δ 1-428-896-11	COIL, LINE FILTER	
T6002	Δ 1-443-059-11	TRANSFORMER, CONVERTER (PIV)	
T6003	Δ 1-428-896-11	COIL, LINE FILTER	
T6101	Δ 1-443-114-11	TRANSFORMER, STANDBY	
< THERMISTOR >			
TR6002	Δ 1-804-650-11	THERMISTOR, POSITIVE	
*A-1302-335-A D Board, Complete			
4-382-854-01	SCREW (M3X8), P, SW (+)		
< CAPACITOR >			
C8100	1-136-165-00	FILM	0.10UF 5.00% 50V
C8101	1-136-165-00	FILM	0.10UF 5.00% 50V
C8102	1-136-165-00	FILM	0.10UF 5.00% 50V
C8103	1-115-416-11	CERAMIC CHIP	0.0010UF 5.00% 25V
C8104	1-115-416-11	CERAMIC CHIP	0.0010UF 5.00% 25V
C8105	1-126-947-11	ELECT	470F 20.00% 35V
C8106	1-164-315-11	CERAMIC CHIP	470PF 5.00% 50V
C8107	1-218-881-11	METAL CHIP	27K 0.5% 1/10W
C8108	1-162-970-11	CERAMIC CHIP	0.010UF 10.00% 25V
C8109	1-126-947-11	ELECT	470F 20.00% 35V
C8110	1-162-970-11	CERAMIC CHIP	0.010UF 10.00% 25V
C8111	1-162-134-11	CERAMIC	470PF 10.00% 2KV
C8112	1-164-227-11	CERAMIC CHIP	0.022UF 10.00% 25V
C8113	1-162-970-11	CERAMIC CHIP	0.010UF 10.00% 25V
C8114	1-126-964-11	ELECT	100UF 20.00% 50V
C8115	1-162-962-11	CERAMIC CHIP	470PF 10.00% 50V
C8116	1-115-416-11	CERAMIC CHIP	0.0010UF 5.00% 25V
C8117	1-115-416-11	CERAMIC CHIP	0.0010UF 5.00% 25V
C8118	1-162-970-11	CERAMIC CHIP	0.010UF 10.00% 25V
C8119	1-107-826-11	CERAMIC CHIP	0.10UF 10.00% 16V
C8120	1-117-662-31	FILM	0.18UF 5% 250V
C8121	1-107-846-11	FILM	0.10UF 5.00% 400V
C8122	1-162-927-11	CERAMIC CHIP	100PF 5.00% 50V
C8124	1-164-227-11	CERAMIC CHIP	0.022UF 10.00% 25V
C8125	1-162-968-11	CERAMIC CHIP	0.0047UF 10.00% 50V
C8126	1-165-176-11	CERAMIC CHIP	0.047UF 10.00% 16V
C8127	1-167-968-11	CERAMIC	0.047UF 5.00% 250V
C8128	1-162-968-11	CERAMIC CHIP	0.0047UF 10.00% 50V
C8129	1-102-030-00	CERAMIC	330PF 10.00% 500V
C8131	1-107-368-11	MYLAR	0.047UF 10.00% 200V
C8132	1-164-230-11	CERAMIC CHIP	220PF 5.00% 50V

REF.NO.	PART.NO.	DESCRIPTION	REMARK
C8134	1-102-935-00	CERAMIC	2PF 0.25PF 50V
C8135	1-126-947-11	ELECT	470F 20.00% 35V
C8136	1-126-964-11	ELECT	100F 20.00% 50V
C8138	1-102-030-00	CERAMIC	330PF 10.00% 500V
C8139	1-162-131-11	CERAMIC	220PF 10.00% 2KV
C8140	1-117-836-11	FILM	6800PF 3.00% 1.5KV
C8141	1-117-836-11	FILM	6800PF 3.00% 1.5KV
C8142	1-127-681-11	FILM	10000PF 2% 100V
C8143	1-125-893-11	FILM	680PF 3.00% 1.5KV
C8144	1-125-893-11	FILM	680PF 3.00% 1.5KV
C8145	1-115-519-11	FILM	0.56UF 5.00% 250V
C8146	1-107-846-11	FILM	0.10UF 5.00% 400V
C8147	1-126-947-11	ELECT	470F 20.00% 35V
C8148	1-117-662-31	FILM	0.18UF 5% 250V
C8200	1-165-441-81	ELECT	330F 20% 160V
C8201	1-107-655-11	ELECT	470F 20.00% 250V
C8202	1-102-228-00	CERAMIC	470PF 10.00% 500V
C8203	1-102-228-00	CERAMIC	470PF 10.00% 500V
C8204	1-102-228-00	CERAMIC	470PF 10.00% 500V
C8205	1-126-941-11	ELECT	470UF 20.00% 25V
C8206	1-126-941-11	ELECT	470UF 20.00% 25V
C8207	1-126-964-11	ELECT	100F 20.00% 50V
C8209	1-164-315-11	CERAMIC CHIP	470PF 5.00% 50V
C8210	1-162-964-11	CERAMIC CHIP	0.0010UF 10.00% 50V
C8529	1-164-156-11	CERAMIC CHIP	0.10UF 25V
C8530	1-164-230-11	CERAMIC CHIP	220PF 5.00% 50V
C8531	1-164-156-11	CERAMIC CHIP	0.10UF 25V
C8532	1-126-947-11	ELECT	470F 20.00% 35V
C8534	1-164-156-11	CERAMIC CHIP	0.10UF 25V
C8536	1-136-165-00	FILM	0.10UF 5.00% 50V
C8537	1-136-347-11	FILM	0.0047UF 5.00% 630V
C8538	1-137-499-11	FILM	0.015UF 5.00% 630V
C8802	1-126-960-11	ELECT	1UF 20.00% 50V
C8803	1-126-960-11	ELECT	1UF 20.00% 50V
C8804	1-102-114-00	CERAMIC	470PF 10.00% 50V
C8805	1-102-114-00	CERAMIC	470PF 10.00% 50V
< CONNECTOR >			
CN8104	*1-564-510-11	PLUG, CONNECTOR 7P	
CN8116	1-695-915-11	TAB (CONTACT)	
CN8203	1-691-775-11	PLUG (MICRO CONNECTOR) 13P	
CN8206	*1-564-510-11	PLUG, CONNECTOR 7P	
CN8211	*1-785-270-12	PIN, DY CONNECTOR (PC BOARD)	
CN8214	*1-564-508-11	PLUG, CONNECTOR 5P	
CN8215	*1-816-877-11	PLUG, CONNECTOR 6P	
CN8805	1-691-773-11	PLUG (MICRO CONNECTOR) 11P	
CN8900	*1-564-510-11	PLUG, CONNECTOR 7P	

REF.NO.	PART.NO.	DESCRIPTION	REMARK
< DIODE >			
D8101	8-719-110-41	DIODE RD15ESB2	
D8102	8-719-081-97	DIODE MMOL914T1	
D8103	8-719-081-97	DIODE MMOL914T1	
D8104	8-719-081-97	DIODE MMOL914T1	
D8105	8-719-081-97	DIODE MMOL914T1	
D8107	8-719-081-97	DIODE MMOL914T1	
D8108	8-719-921-40	DIODE NTJ2-4.7C	
D8128	8-719-081-97	DIODE MMOL914T1	
D8132	8-719-081-97	DIODE MMOL914T1	
D8133	8-719-081-97	DIODE MMOL914T1	
D8199	8-719-081-97	DIODE MMOL914T1	
D8200	8-719-302-43	DIODE EL12	
D8201	8-719-302-43	DIODE EL12	
D8203	8-719-085-12	DIODE BYV98-200-RAS 15/12	
D8204	8-719-085-12	DIODE BYV98-200-RAS 15/12	
D8207	8-719-991-33	DIODE 1SS133T-77	
D8208	8-719-991-33	DIODE 1SS133T-77	
D8508	8-719-063-73	DIODE D1ML200-TR	
D8509	8-719-081-97	DIODE MMOL914T1	
D8611	8-719-081-97	DIODE MMOL914T1	
D8612	8-719-081-97	DIODE MMOL914T1	
D8802	8-719-081-97	DIODE MMOL914T1	
D8803	8-719-081-97	DIODE MMOL914T1	
< FERRITE BEAD >			
FB8100	1-410-397-21	FERRITE	1.1UH
< IC >			
IC8100	8-759-665-11	IC LM393DT	
IC8101	8-759-665-11	IC LM393DT	
IC8102	8-759-638-79	IC NJM3404AD-W	
IC8103	8-759-659-67	IC LA63933LL	
IC8527	8-759-701-01	IC NJM2904N	
< COIL >			
L8101	1-406-985-11	INDUCTOR	2.2MH
L8102	1-414-928-21	INDUCTOR	1UH
L8103	1-414-928-21	INDUCTOR	1UH
L8104	1-414-928-21	INDUCTOR	1UH
L8201	1-410-397-21	FERRITE	1.1UH
L8202	1-410-397-21	FERRITE	1.1UH
L8203	1-410-397-21	FERRITE	1.1UH
L8569	1-406-989-21	INDUCTOR	10MH
L8576	1-406-989-21	INDUCTOR	10MH
< TRANSISTOR >			
Q8100	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8101	8-729-010-29	TRANSISTOR MSD601-RST1	

REF.NO.	PART NO	DESCRIPTION	REMARK	REF.NO.	PART NO	DESCRIPTION	REMARK
Q8102	8-729-010-29	TRANSISTOR MSD601-RST1		R8111	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q8103	8-729-010-29	TRANSISTOR MSD601-RST1		R8112	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q8104	8-729-010-29	TRANSISTOR MSD601-RST1		R8113	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q8105	8-729-010-29	TRANSISTOR MSD601-RST1		R8114	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q8106	8-729-010-29	TRANSISTOR MSD601-RST1		R8115	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q8107	8-729-010-29	TRANSISTOR MSD601-RST1		R8116	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q8108	8-729-010-05	TRANSISTOR MSB709-RT1		R8117	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q8109	8-729-048-47	TRANSISTOR 2SC2688(5)-LK		R8118	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q8110	8-729-010-05	TRANSISTOR MSB709-RT1		R8119	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q8111	8-729-048-47	TRANSISTOR 2SC2688(5)-LK		R8120	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q8112	8-729-010-29	TRANSISTOR MSD601-RST1		R8121	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q8113	8-729-010-29	TRANSISTOR MSD601-RST1		R8122	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q8114	6-550-669-01	TRANSISTOR ST2310DHI		R8123	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q8115	8-729-010-05	TRANSISTOR MSB709-RT1		R8124	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q8116	6-550-669-01	TRANSISTOR ST2310DHI		R8125	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q8117	8-729-050-48	TRANSISTOR IRF614-005		R8126	1-216-815-11	METAL CHIP 330 5%	1/10W
Q8118	8-729-010-29	TRANSISTOR MSD601-RST1		R8127	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W
Q8119	8-729-010-05	TRANSISTOR MSB709-RT1		R8128	1-218-887-11	METAL CHIP 47K 0.5%	1/10W
Q8120	8-729-010-05	TRANSISTOR MSB709-RT1		R8129	1-218-887-11	METAL CHIP 47K 0.5%	1/10W
Q8121	6-550-721-01	TRANSISTOR 2SK2679(LBS2NCS)		R8130	1-218-911-11	METAL CHIP 470K 0.5%	1/10W
Q8122	8-729-010-05	TRANSISTOR MSB709-RT1		R8131	1-216-815-11	METAL CHIP 330 5%	1/10W
Q8123	8-729-010-05	TRANSISTOR MSB709-RT1		R8132	1-216-815-11	METAL CHIP 330 5%	1/10W
Q8125	8-729-010-29	TRANSISTOR MSD601-RST1		R8133	1-216-815-11	METAL CHIP 330 5%	1/10W
Q8126	8-729-010-05	TRANSISTOR MSB709-RT1		R8135	1-243-584-21	METAL OXIDE 4.7K 5%	2W
Q8127	8-729-010-05	TRANSISTOR MSB709-RT1		R8136	1-218-887-11	METAL CHIP 47K 0.5%	1/10W
Q8128	8-729-010-29	TRANSISTOR MSD601-RST1		R8137	1-218-887-11	METAL CHIP 47K 0.5%	1/10W
Q8132	8-729-421-19	TRANSISTOR UN2213		R8138	1-218-887-11	METAL CHIP 47K 0.5%	1/10W
Q8201	8-729-010-29	TRANSISTOR MSD601-RST1		R8139	1-218-887-11	METAL CHIP 47K 0.5%	1/10W
Q8202	8-729-010-29	TRANSISTOR MSD601-RST1		R8140	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q8203	8-729-010-29	TRANSISTOR MSD601-RST1		R8141	1-243-584-21	METAL OXIDE 4.7K 5%	2W
Q8455	8-729-010-29	TRANSISTOR MSD601-RST1		R8142	1-260-340-11	CARBON 10K 5%	1/2W
Q8508	8-729-010-29	TRANSISTOR MSD601-RST1		R8143	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q8509	8-729-010-29	TRANSISTOR MSD601-RST1		R8144	1-215-895-21	METAL OXIDE 3.3K 5%	2W
Q8510	8-729-140-93	TRANSISTOR 2SB733-34		R8145	1-215-895-21	METAL OXIDE 3.3K 5%	2W
Q8512	8-729-053-33	TRANSISTOR IRF614-037		R8146	1-260-340-11	CARBON 10K 5%	1/2W
< RESISTOR >				R8147	1-243-949-21	METAL OXIDE 0.47 5%	2W
JR8453	1-216-864-11	SHORT CHIP 0		R8148	1-215-880-71	METAL OXIDE 10 5%	2W
R8100	1-216-813-11	METAL CHIP 220 5%	1/10W	R8149	1-216-821-11	METAL CHIP 1K 5%	1/10W
R8101	1-216-813-11	METAL CHIP 220 5%	1/10W	R8150	1-216-821-11	METAL CHIP 1K 5%	1/10W
R8102	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R8151	1-216-361-00	METAL OXIDE 0.22 5%	2W
R8103	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R8152	1-215-880-71	METAL OXIDE 10 5%	2W
R8104	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R8153	1-247-807-31	CARBON 100 5%	1/4W
R8105	1-216-821-11	METAL CHIP 1K 5%	1/10W	R8154	1-216-845-11	METAL CHIP 100K 5%	1/10W
R8106	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R8155	1-216-853-11	METAL CHIP 470K 5%	1/10W
R8107	1-218-857-11	METAL CHIP 2.7K 0.5%	1/10W	R8156	1-215-489-00	METAL CHIP 680K 1%	1/4W
R8108	1-218-857-11	METAL CHIP 2.7K 0.5%	1/10W	R8157	1-215-493-00	METAL CHIP 1M 1%	1/4W
R8109	1-218-879-11	METAL CHIP 22K 0.5%	1/10W	R8158	1-218-859-11	METAL CHIP 3.3K 0.5%	1/10W
R8110	1-218-879-11	METAL CHIP 22K 0.5%	1/10W	R8159	1-216-864-11	SHORT CHIP 0	
				R8160	1-216-864-11	SHORT CHIP 0	
				R8161	1-218-869-11	METAL CHIP 8.2K 0.5%	1/10W

REF.NO.	PART NO	DESCRIPTION	REMARK	REF.NO.	PART NO	DESCRIPTION	REMARK
R8162	1-216-821-11	METAL CHIP 1K 5%	1/10W	R8541	1-218-863-11	METAL CHIP 4.7K 0.5%	1/10W
R8163	1-216-833-11	METAL CHIP 10K 5%	1/10W	R8542	1-216-841-11	METAL CHIP 47K 5%	1/10W
R8165	1-218-889-11	METAL CHIP 56K 0.5%	1/10W	R8543	1-216-833-11	METAL CHIP 10K 5%	1/10W
R8166	1-247-807-31	CARBON 100 5%	1/4W	R8544	1-216-841-11	METAL CHIP 47K 5%	1/10W
R8167	1-215-493-00	METAL 1M 1%	1/4W	R8545	1-216-821-11	METAL CHIP 1K 5%	1/10W
R8168	1-216-829-11	METAL CHIP 4.7K 5%	1/10W	R8550	1-218-863-11	METAL CHIP 4.7K 0.5%	1/10W
R8169	1-218-895-11	METAL CHIP 100K 0.5%	1/10W	R8552	1-218-863-11	METAL CHIP 4.7K 0.5%	1/10W
R8170	1-216-815-11	METAL CHIP 330 5%	1/10W	R8565	1-218-863-11	METAL CHIP 4.7K 0.5%	1/10W
R8171	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R8566	1-216-821-11	METAL CHIP 1K 5%	1/10W
R8174	1-216-837-11	METAL CHIP 22K 5%	1/10W	R8567	1-216-833-11	METAL CHIP 10K 5%	1/10W
R8175	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W	R8568	1-216-813-11	METAL CHIP 220 5%	1/10W
R8176	1-216-833-11	METAL CHIP 10K 5%	1/10W	R8570	1-243-554-21	METAL OXIDE 15 5%	2W
R8177	1-216-829-11	METAL CHIP 4.7K 5%	1/10W	R8571	1-243-555-21	METAL OXIDE 18 5%	2W
R8179	1-216-864-11	SHORT CHIP 0		R8572	1-215-882-21	METAL OXIDE 22 5%	2W
R8180	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R8573	1-216-821-11	METAL CHIP 1K 5%	1/10W
R8181	1-249-409-11	CARBON 220 5%	1/4W	R8574	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R8182	1-216-841-11	METAL CHIP 47K 5%	1/10W	R8575	1-216-817-11	METAL CHIP 470 5%	1/10W
R8183	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R8804	1-249-408-11	CARBON 180 5%	1/4W
R8186	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R8805	1-249-408-11	CARBON 180 5%	1/4W
R8188	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W	R8806	1-249-411-11	CARBON 330 5%	1/4W
R8189	1-216-821-11	METAL CHIP 1K 5%	1/10W	R8807	1-249-411-11	CARBON 330 5%	1/4W
R8190	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R8868	1-218-869-11	METAL CHIP 8.2K 0.5%	1/10W
R8191	1-243-622-21	METAL OXIDE 22K 5%	3W	R8885	1-218-895-11	METAL CHIP 100K 0.5%	1/10W
R8196	1-249-377-11	CARBON 0.47 5%	1/4W	R8886	1-218-875-11	METAL CHIP 15K 0.5%	1/10W
R8197	1-216-841-11	METAL CHIP 47K 5%	1/10W	< TRANSFORMER >			
R8201	1-260-123-11	CARBON 100K 5%	1/2W	T8100	1-433-489-31	TRANSFORMER, FERRITE (HDT)	
R8203	1-216-864-11	SHORT CHIP 0		T8101	1-433-489-31	TRANSFORMER, FERRITE (HDT)	
R8204	1-202-972-61	FUSIBLE 1 5%	1/4W	T8202	1-437-614-11	TRANSFORMER, HORIZONTAL OUTPUT	
R8205	1-218-871-11	METAL CHIP 10K 0.5%	1/10W	< CAPACITOR >			
R8206	1-249-443-11	CARBON 0.47 5%	1/4W	C0005	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
R8207	1-249-443-11	CARBON 0.47 5%	1/4W	C0006	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
R8208	1-216-838-11	METAL CHIP 27K 5%	1/10W	C0007	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
R8209	1-216-833-11	METAL CHIP 10K 5%	1/10W	C0008	1-164-156-11	CERAMIC CHIP 0.1UF	25V
R8210	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	C0009	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
R8211	1-216-833-11	METAL CHIP 10K 5%	1/10W	C0011	1-164-156-11	CERAMIC CHIP 0.1UF	25V
R8212	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	C0013	1-164-156-11	CERAMIC CHIP 0.1UF	25V
R8215	1-218-887-11	METAL CHIP 47K 0.5%	1/10W	C0015	1-164-156-11	CERAMIC CHIP 0.1UF	25V
R8216	1-218-887-11	METAL CHIP 47K 0.5%	1/10W	C0016	1-164-156-11	CERAMIC CHIP 0.1UF	25V
R8217	1-216-833-11	METAL CHIP 10K 5%	1/10W	C0017	1-164-156-11	CERAMIC CHIP 0.1UF	25V
R8218	1-249-443-11	CARBON 0.47 5%	1/4W	C0018	1-164-156-11	CERAMIC CHIP 0.1UF	25V
R8219	1-249-443-11	CARBON 0.47 5%	1/4W	C0020	1-126-947-11	ELECT 470UF	20.00% 35V
R8220	1-216-821-11	METAL CHIP 1K 5%	1/10W	C0021	1-164-156-11	CERAMIC CHIP 0.1UF	25V
R8222	1-216-341-11	METAL OXIDE 0.22 5%	1W	C0023	1-126-933-11	ELECT 100UF	20.00% 16V
R8456	1-218-889-11	METAL CHIP 56K 0.5%	1/10W	C0025	1-164-156-11	CERAMIC CHIP 0.1UF	25V
R8457	1-216-830-11	METAL CHIP 5.6K 5%	1/10W				
R8458	1-216-841-11	METAL CHIP 47K 5%	1/10W				
R8459	1-216-825-11	METAL CHIP 2.2K 5%	1/10W				
R8538	1-216-849-11	METAL CHIP 220K 5%	1/10W				
R8539	1-216-845-11	METAL CHIP 100K 5%	1/10W				
R8540	1-216-837-11	METAL CHIP 22K 5%	1/10W				

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REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
C0026	1-126-947-11	ELECT 470F	20.00% 35V	C3138	1-164-156-11	CERAMIC CHIP 0.10F	25V
C0028	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3139	1-164-156-11	CERAMIC CHIP 0.10F	25V
C0029	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3140	1-164-156-11	CERAMIC CHIP 0.10F	25V
C0032	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3141	1-164-156-11	CERAMIC CHIP 0.10F	25V
C0033	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3142	1-126-947-11	ELECT 470F	20.00% 35V
C0035	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3143	1-126-947-11	ELECT 470F	20.00% 35V
C0038	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3144	1-126-947-11	ELECT 470F	20.00% 35V
C0039	1-126-947-11	ELECT 470F	20.00% 35V	C3145	1-126-947-11	ELECT 470F	20.00% 35V
C0041	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3147	1-164-156-11	CERAMIC CHIP 0.10F	25V
C0043	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3148	1-164-156-11	CERAMIC CHIP 0.10F	25V
C0045	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3300	1-164-156-11	CERAMIC CHIP 0.10F	25V
C0047	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3301	1-164-156-11	CERAMIC CHIP 0.10F	25V
C0048	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3302	1-164-156-11	CERAMIC CHIP 0.10F	25V
C0051	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3303	1-164-156-11	CERAMIC CHIP 0.10F	25V
C0053	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3304	1-164-156-11	CERAMIC CHIP 0.10F	25V
C0054	1-126-947-11	ELECT 470F	20.00% 35V	C3305	1-164-156-11	CERAMIC CHIP 0.10F	25V
C0055	1-126-947-11	ELECT 470F	20.00% 35V	C3306	1-164-156-11	CERAMIC CHIP 0.10F	25V
C0056	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3307	1-126-947-11	ELECT 470F	20.00% 35V
C0059	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3308	1-164-156-11	CERAMIC CHIP 0.10F	25V
C0060	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V	C3309	1-164-156-11	CERAMIC CHIP 0.10F	25V
C0061	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3310	1-164-156-11	CERAMIC CHIP 0.10F	25V
C0062	1-126-947-11	ELECT 470F	20.00% 35V	C3311	1-164-156-11	CERAMIC CHIP 0.10F	25V
C0063	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V	C3312	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C0064	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V	C3313	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C0065	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3314	1-164-156-11	CERAMIC CHIP 0.10F	25V
C0066	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3315	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3101	1-127-715-91	CERAMIC CHIP 0.220F	10% 16V	C3316	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3102	1-127-715-91	CERAMIC CHIP 0.220F	10% 16V	C3317	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3103	1-127-715-91	CERAMIC CHIP 0.220F	10% 16V	C3318	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3104	1-127-715-91	CERAMIC CHIP 0.220F	10% 16V	C3319	1-126-947-11	ELECT 470F	20.00% 35V
C3105	1-127-715-91	CERAMIC CHIP 0.220F	10% 16V	C3320	1-126-947-11	ELECT 470F	20.00% 35V
C3106	1-127-715-91	CERAMIC CHIP 0.220F	10% 16V	C3321	1-115-758-11	ELECT 4700F	20.00% 16V
C3107	1-165-176-11	CERAMIC CHIP 0.0470F	10.00% 16V	C3324	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3108	1-165-176-11	CERAMIC CHIP 0.0470F	10.00% 16V	C3402	1-126-947-11	ELECT 470F	20.00% 35V
C3109	1-165-176-11	CERAMIC CHIP 0.0470F	10.00% 16V	C3403	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3110	1-165-176-11	CERAMIC CHIP 0.0470F	10.00% 16V	C3405	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3121	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3406	1-126-947-11	ELECT 470F	20.00% 35V
C3122	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3407	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3123	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3408	1-126-947-11	ELECT 470F	20.00% 35V
C3124	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3409	1-126-947-11	ELECT 470F	20.00% 35V
C3127	1-165-176-11	CERAMIC CHIP 0.0470F	10.00% 16V	C3410	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3129	1-165-176-11	CERAMIC CHIP 0.0470F	10.00% 16V	C3411	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3130	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3412	1-107-826-11	CERAMIC CHIP 0.10F	10.00% 16V
C3131	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3413	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3132	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3414	1-165-176-11	CERAMIC CHIP 0.0470F	10.00% 16V
C3133	1-126-947-11	ELECT 470F	20.00% 35V	C3415	1-165-176-11	CERAMIC CHIP 0.0470F	10.00% 16V
C3134	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3416	1-165-176-11	CERAMIC CHIP 0.0470F	10.00% 16V
C3135	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V	C3421	1-107-826-11	CERAMIC CHIP 0.10F	10.00% 16V
C3136	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3422	1-107-826-11	CERAMIC CHIP 0.10F	10.00% 16V
C3137	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V	C3426	1-164-156-11	CERAMIC CHIP 0.10F	25V

B

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
C3431	1-165-176-11	CERAMIC CHIP 0.0470F	10.00% 16V	C3845	1-126-947-11	ELECT 470F	20.00% 35V
C3432	1-165-176-11	CERAMIC CHIP 0.0470F	10.00% 16V	C3846	1-126-959-11	ELECT 0.470F	20.00% 50V
C3433	1-165-176-11	CERAMIC CHIP 0.0470F	10.00% 16V	C3847	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3434	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3848	1-126-947-11	ELECT 470F	20.00% 35V
C3435	1-107-826-11	CERAMIC CHIP 0.10F	10.00% 16V	C3849	1-164-388-91	CERAMIC CHIP 270PF	5.00% 50V
C3436	1-126-947-11	ELECT 470F	20.00% 35V	C3851	1-126-947-11	ELECT 470F	20.00% 35V
C3800	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3853	1-126-960-11	ELECT 10F	20.00% 50V
C3801	1-126-947-11	ELECT 470F	20.00% 35V	C3854	1-162-968-11	CERAMIC CHIP 0.00470F	10.00% 50V
C3802	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3855	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V
C3803	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3856	1-126-947-11	ELECT 470F	20.00% 35V
C3804	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3857	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3805	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3858	1-126-960-11	ELECT 10F	20.00% 50V
C3806	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3859	1-126-947-11	ELECT 470F	20.00% 35V
C3807	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3861	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C3808	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3864	1-126-959-11	ELECT 0.470F	20.00% 50V
C3809	1-126-947-11	ELECT 470F	20.00% 35V	C3865	1-126-947-11	ELECT 470F	20.00% 35V
C3810	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3866	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3811	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3867	1-126-963-11	ELECT 4.70F	20.00% 50V
C3812	1-126-947-11	ELECT 470F	20.00% 35V	C3868	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3813	1-126-947-11	ELECT 470F	20.00% 35V	C3869	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3814	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3870	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3815	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3871	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V
C3816	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3872	1-126-947-11	ELECT 470F	20.00% 35V
C3817	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3874	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3818	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3875	1-125-891-11	CERAMIC CHIP 0.470F	10.00% 10V
C3819	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3876	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3820	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3877	1-162-917-11	CERAMIC CHIP 15PF	5.00% 50V
C3821	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3879	1-126-947-11	ELECT 470F	20.00% 35V
C3822	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3882	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3823	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3883	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3824	1-164-156-11	CERAMIC CHIP 0.10F	25V	C3884	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3825	1-164-156-11	CERAMIC CHIP 0.10F	25V	C5503	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C3826	1-164-156-11	CERAMIC CHIP 0.10F	25V	C5504	1-218-899-91	RES CHIP 150K	0.5% 1/16W
C3827	1-164-156-11	CERAMIC CHIP 0.10F	25V	C5508	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V
C3828	1-164-156-11	CERAMIC CHIP 0.10F	25V	C5509	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V
C3829	1-164-156-11	CERAMIC CHIP 0.10F	25V	C5510	1-115-416-11	CERAMIC CHIP 0.0010F	5.00% 25V
C3830	1-164-156-11	CERAMIC CHIP 0.10F	25V	C5511	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V
C3831	1-164-156-11	CERAMIC CHIP 0.10F	25V	C5516	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3832	1-162-964-11	CERAMIC CHIP 0.0010F	10.00% 50V	C5518	1-164-156-11	CERAMIC CHIP 0.10F	25V
C3833	1-164-156-11	CERAMIC CHIP 0.10F	25V	C5558	1-126-947-11	ELECT 470F	20.00% 35V
C3834	1-164-156-11	CERAMIC CHIP 0.10F	25V	< CONNECTOR >			
C3835	1-164-156-11	CERAMIC CHIP 0.10F	25V	CW0004	*1-564-507-11	PLUG, CONNECTOR 4P	
C3836	1-164-156-11	CERAMIC CHIP 0.10F	25V	CW3100	1-794-244-11	CONNECTOR, DIN (PLUG) 96P	
C3837	1-164-156-11	CERAMIC CHIP 0.10F	25V	CW3400	*1-564-524-11	PLUG, CONNECTOR 9P	
C3838	1-164-156-11	CERAMIC CHIP 0.10F	25V	CW3401	*1-764-643-21	PIN, CONNECTOR (SMD) 11P	
C3839	1-164-156-11	CERAMIC CHIP 0.10F	25V	CW3402	*1-564-519-11	PLUG, CONNECTOR 4P	
C3840	1-126-947-11	ELECT 470F	20.00% 35V	< DIODE >			
C3841	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	D0070	8-719-081-97	DIODE MODEL:914T1	
C3842	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V				
C3844	1-126-947-11	ELECT 470F	20.00% 35V				

B

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
D0071	8-719-081-97	DIODE MMDL91471		L3802	1-414-928-21	INDUCTOR	1UH
D5500	8-719-069-55	DIODE UD18TR-175. 6B		L3803	1-414-928-21	INDUCTOR	1UH
D5501	8-719-083-57	DIODE UD18TR-173. 6B		L3805	1-414-928-21	INDUCTOR	1UH
D5502	6-500-028-01	DIODE MM329V1ST1		L3806	1-414-928-21	INDUCTOR	1UH
D5504	8-719-081-97	DIODE MMDL91471		L3807	1-414-928-21	INDUCTOR	1UH
D5505	8-719-081-97	DIODE MMDL91471		L3808	1-412-987-31	INDUCTOR	4.7UH
D5506	8-719-081-97	DIODE MMDL91471		L3809	1-414-928-21	INDUCTOR	1UH
< FILTER >				L3810	1-414-928-21	INDUCTOR	1UH
FL3800	1-233-765-21	FILTER		L3856	1-414-928-21	INDUCTOR	1UH
FL3801	1-233-765-21	FILTER		L5549	1-414-928-21	INDUCTOR	1UH
< IC >				< TRANSISTOR >			
IC0001	6-704-964-01	IC SDA6001-B12T		Q0001	8-729-010-05	TRANSISTOR MSB709-RT1	
IC0002	8-759-682-41	IC M24C32-WM06T(A)		Q0002	8-729-010-05	TRANSISTOR MSB709-RT1	
IC0003	6-704-312-01	IC K45641632F-0C75T		Q0003	8-729-010-05	TRANSISTOR MSB709-RT1	
IC0005	6-803-810-01	IC M27V160-100K1-GBA001		Q0005	8-729-010-29	TRANSISTOR MSD601-RST1	
IC0006	6-702-313-01	IC PST6001MT		Q0075	8-729-010-29	TRANSISTOR MSD601-RST1	
IC0007	8-759-352-91	IC PST9143NL		Q3400	8-729-010-29	TRANSISTOR MSD601-RST1	
IC3103	6-803-528-01	IC VSP9417BC3G		Q3401	8-729-010-29	TRANSISTOR MSD601-RST1	
IC3303	6-705-124-01	IC FRC3429A-A1		Q3402	8-729-010-29	TRANSISTOR MSD601-RST1	
IC3403	6-705-123-01	IC DDP3316C-H5		Q3403	8-729-010-29	TRANSISTOR MSD601-RST1	
IC3803	6-704-312-01	IC K45641632F-0C75T		Q3404	8-729-010-29	TRANSISTOR MSD601-RST1	
IC3801	8-752-424-79	IC CXD3804R-T6		Q3405	8-729-010-29	TRANSISTOR MSD601-RST1	
IC3802	8-752-086-80	IC CXA2019AQ-T4		Q3406	8-729-010-05	TRANSISTOR MSB709-RT1	
< COIL >				Q3409	8-729-010-29	TRANSISTOR MSD601-RST1	
L0002	1-414-928-21	INDUCTOR	1UH	Q3410	8-729-010-29	TRANSISTOR MSD601-RST1	
L0003	1-414-928-21	INDUCTOR	1UH	Q3800	8-729-010-29	TRANSISTOR MSD601-RST1	
L0004	1-414-928-21	INDUCTOR	1UH	Q3801	8-729-010-29	TRANSISTOR MSD601-RST1	
L0006	1-414-928-21	INDUCTOR	1UH	Q3802	8-729-010-29	TRANSISTOR MSD601-RST1	
L0007	1-414-928-21	INDUCTOR	1UH	Q3803	8-729-010-29	TRANSISTOR MSD601-RST1	
L0008	1-414-928-21	INDUCTOR	1UH	Q3805	8-729-010-29	TRANSISTOR MSD601-RST1	
L3100	1-414-928-21	INDUCTOR	1UH	Q3806	8-729-010-29	TRANSISTOR MSD601-RST1	
L3104	1-414-928-21	INDUCTOR	1UH	Q3807	8-729-010-29	TRANSISTOR MSD601-RST1	
L3105	1-414-928-21	INDUCTOR	1UH	Q3808	8-729-010-29	TRANSISTOR MSD601-RST1	
L3106	1-414-928-21	INDUCTOR	1UH	Q3811	8-729-010-05	TRANSISTOR MSB709-RT1	
L3107	1-414-928-21	INDUCTOR	1UH	Q3812	8-729-010-29	TRANSISTOR MSD601-RST1	
L3300	1-414-928-21	INDUCTOR	1UH	Q3814	8-729-010-29	TRANSISTOR MSD601-RST1	
L3301	1-414-928-21	INDUCTOR	1UH	Q3816	8-729-010-05	TRANSISTOR MSB709-RT1	
L3302	1-414-928-21	INDUCTOR	1UH	Q5500	8-729-010-29	TRANSISTOR MSD601-RST1	
L3303	1-410-397-21	FERRITE	1.1UH	Q5503	8-729-010-29	TRANSISTOR MSD601-RST1	
L3400	1-414-928-21	INDUCTOR	1UH	Q5505	8-729-010-29	TRANSISTOR MSD601-RST1	
L3401	1-414-928-21	INDUCTOR	1UH	Q5507	8-729-010-05	TRANSISTOR MSB709-RT1	
L3402	1-414-928-21	INDUCTOR	1UH	Q5509	8-729-010-29	TRANSISTOR MSD601-RST1	
L3403	1-414-928-21	INDUCTOR	1UH	Q5519	8-729-010-29	TRANSISTOR MSD601-RST1	
L3404	1-414-928-21	INDUCTOR	1UH	Q5550	8-729-010-29	TRANSISTOR MSD601-RST1	
L3801	1-414-928-21	INDUCTOR	1UH	< RESISTOR >			
				JR0002	1-216-864-11	SHORT CHIP	0
				JR0003	1-216-864-11	SHORT CHIP	0
				JR0004	1-216-864-11	SHORT CHIP	0

B

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
JR0008	1-216-864-11	SHORT CHIP	0	R0046	1-216-833-11	METAL CHIP	10K 5% 1/10W
JR0010	1-216-864-11	SHORT CHIP	0	R0047	1-216-809-11	METAL CHIP	100 5% 1/10W
JR0011	1-216-864-11	SHORT CHIP	0	R0048	1-216-809-11	METAL CHIP	100 5% 1/10W
JR3400	1-216-864-11	SHORT CHIP	0	R0049	1-216-809-11	METAL CHIP	100 5% 1/10W
JR3401	1-216-864-11	SHORT CHIP	0	R0052	1-216-809-11	METAL CHIP	100 5% 1/10W
JR3404	1-216-864-11	SHORT CHIP	0	R0053	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
JR3406	1-216-864-11	SHORT CHIP	0	R0056	1-216-809-11	METAL CHIP	100 5% 1/10W
JR3408	1-216-864-11	SHORT CHIP	0	R0057	1-216-809-11	METAL CHIP	100 5% 1/10W
JR3409	1-216-864-11	SHORT CHIP	0	R0059	1-216-809-11	METAL CHIP	100 5% 1/10W
JR5581	1-414-760-21	FERRITE	0UH	R0060	1-216-809-11	METAL CHIP	100 5% 1/10W
R0001	1-216-833-11	METAL CHIP	10K 5% 1/10W	R0063	1-216-809-11	METAL CHIP	100 5% 1/10W
R0002	1-216-833-11	METAL CHIP	10K 5% 1/10W	R0064	1-216-809-11	METAL CHIP	100 5% 1/10W
R0003	1-216-833-11	METAL CHIP	10K 5% 1/10W	R0065	1-216-833-11	METAL CHIP	10K 5% 1/10W
R0004	1-216-816-11	METAL CHIP	390 5% 1/10W	R0066	1-216-833-11	METAL CHIP	10K 5% 1/10W
R0005	1-216-816-11	METAL CHIP	390 5% 1/10W	R0067	1-216-833-11	METAL CHIP	10K 5% 1/10W
R0006	1-216-816-11	METAL CHIP	390 5% 1/10W	R0068	1-216-833-11	METAL CHIP	10K 5% 1/10W
R0007	1-216-817-11	METAL CHIP	470 5% 1/10W	R0069	1-216-833-11	METAL CHIP	10K 5% 1/10W
R0008	1-216-817-11	METAL CHIP	470 5% 1/10W	R0070	1-216-809-11	METAL CHIP	100 5% 1/10W
R0009	1-216-817-11	METAL CHIP	470 5% 1/10W	R0071	1-216-849-11	METAL CHIP	220K 5% 1/10W
R0011	1-216-864-11	SHORT CHIP	0	R0072	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R0014	1-216-805-11	METAL CHIP	47 5% 1/10W	R0073	1-216-833-11	METAL CHIP	10K 5% 1/10W
R0015	1-216-805-11	METAL CHIP	47 5% 1/10W	R0074	1-216-864-11	SHORT CHIP	0
R0016	1-216-805-11	METAL CHIP	47 5% 1/10W	R0075	1-216-809-11	METAL CHIP	100 5% 1/10W
R0018	1-216-864-11	SHORT CHIP	0	R0076	1-216-864-11	SHORT CHIP	0
R0019	1-216-809-11	METAL CHIP	100 5% 1/10W	R0079	1-216-864-11	SHORT CHIP	0
R0020	1-216-833-11	METAL CHIP	10K 5% 1/10W	R0080	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R0021	1-216-809-11	METAL CHIP	100 5% 1/10W	R0081	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R0022	1-216-864-11	SHORT CHIP	0	R0082	1-216-809-11	METAL CHIP	100 5% 1/10W
R0023	1-216-833-11	METAL CHIP	10K 5% 1/10W	R0083	1-216-809-11	METAL CHIP	100 5% 1/10W
R0025	1-216-809-11	METAL CHIP	100 5% 1/10W	R0084	1-216-833-11	METAL CHIP	10K 5% 1/10W
R0026	1-216-809-11	METAL CHIP	100 5% 1/10W	R0085	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R0027	1-216-809-11	METAL CHIP	100 5% 1/10W	R0086	1-216-809-11	METAL CHIP	100 5% 1/10W
R0028	1-216-833-11	METAL CHIP	10K 5% 1/10W	R0087	1-216-809-11	METAL CHIP	100 5% 1/10W
R0029	1-216-809-11	METAL CHIP	100 5% 1/10W	R0088	1-216-809-11	METAL CHIP	100 5% 1/10W
R0030	1-216-809-11	METAL CHIP	100 5% 1/10W	R0089	1-216-827-91	RES CHIP	3.3K 5% 1/10W
R0031	1-216-809-11	METAL CHIP	100 5% 1/10W	R0092	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R0032	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R0093	1-216-833-11	METAL CHIP	10K 5% 1/10W
R0033	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R0095	1-216-821-11	METAL CHIP	1K 5% 1/10W
R0034	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R0099	1-216-833-11	METAL CHIP	10K 5% 1/10W
R0035	1-216-809-11	METAL CHIP	100 5% 1/10W	R0102	1-216-864-11	SHORT CHIP	0
R0036	1-216-809-11	METAL CHIP	100 5% 1/10W	R0108	1-216-864-11	SHORT CHIP	0
R0037	1-216-809-11	METAL CHIP	100 5% 1/10W	R0137	1-216-839-11	METAL CHIP	33K 5% 1/10W
R0038	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R3100	1-216-864-11	SHORT CHIP	0
R0039	1-216-817-91	RES CHIP	470 5% 1/10W	R3103	1-216-864-11	SHORT CHIP	0
R0040	1-216-809-11	METAL CHIP	100 5% 1/10W	R3104	1-216-864-11	SHORT CHIP	0
R0041	1-216-815-11	METAL CHIP	330 5% 1/10W	R3106	1-216-864-11	SHORT CHIP	0
R0042	1-216-809-11	METAL CHIP	100 5% 1/10W	R3108	1-216-864-11	SHORT CHIP	0
R0043	1-216-864-11	SHORT CHIP	0	R3109	1-216-809-11	METAL CHIP	100 5% 1/10W
R0044	1-216-809-11	METAL CHIP	100 5% 1/10W	R3110	1-216-809-11	METAL CHIP	100 5% 1/10W
R0045	1-216-809-11	METAL CHIP	100 5% 1/10W	R3112	1-216-809-11	METAL CHIP	100 5% 1/10W



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REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
R3113	1-216-809-11	METAL CHIP	100 5% 1/10W	R3438	1-216-864-11	SHORT CHIP	0
R3114	1-216-864-11	SHORT CHIP	0	R3442	1-216-864-11	SHORT CHIP	0
R3115	1-216-864-11	SHORT CHIP	0	R3443	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
R3117	1-216-864-11	SHORT CHIP	0	R3444	1-216-809-11	METAL CHIP	100 5% 1/10W
R3165	1-216-845-11	METAL CHIP	100K 5% 1/10W	R3445	1-216-809-11	METAL CHIP	100 5% 1/10W
R3270	1-216-864-11	SHORT CHIP	0	R3446	1-216-811-11	METAL CHIP	150 5% 1/10W
R3271	1-216-864-11	SHORT CHIP	0	R3450	1-218-837-11	METAL CHIP	390 0.5% 1/10W
R3272	1-216-864-11	SHORT CHIP	0	R3451	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R3300	1-216-809-11	METAL CHIP	100 5% 1/10W	R3452	1-216-817-11	METAL CHIP	470 5% 1/10W
R3301	1-216-809-11	METAL CHIP	100 5% 1/10W	R3471	1-216-809-11	METAL CHIP	100 5% 1/10W
R3302	1-216-864-11	SHORT CHIP	0	R3800	1-216-864-11	SHORT CHIP	0
R3303	1-216-864-11	SHORT CHIP	0	R3801	1-216-841-11	METAL CHIP	47K 5% 1/10W
R3306	1-216-864-11	SHORT CHIP	0	R3802	1-216-841-11	METAL CHIP	47K 5% 1/10W
R3307	1-216-864-11	SHORT CHIP	0	R3803	1-216-813-11	METAL CHIP	220 5% 1/10W
R3308	1-216-864-11	SHORT CHIP	0	R3804	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R3311	1-216-864-11	SHORT CHIP	0	R3806	1-216-864-11	SHORT CHIP	0
R3313	1-216-864-11	SHORT CHIP	0	R3807	1-216-818-11	METAL CHIP	560 5% 1/10W
R3314	1-216-821-11	METAL CHIP	1K 5% 1/10W	R3808	1-216-864-11	SHORT CHIP	0
R3315	1-216-821-11	METAL CHIP	1K 5% 1/10W	R3810	1-216-817-11	METAL CHIP	470 5% 1/10W
R3316	1-216-821-11	METAL CHIP	1K 5% 1/10W	R3811	1-216-817-11	METAL CHIP	470 5% 1/10W
R3317	1-216-821-11	METAL CHIP	1K 5% 1/10W	R3812	1-414-760-21	FERRITE	00H
R3318	1-216-821-11	METAL CHIP	1K 5% 1/10W	R3814	1-216-864-11	SHORT CHIP	0
R3319	1-216-821-11	METAL CHIP	1K 5% 1/10W	R3815	1-216-841-11	METAL CHIP	47K 5% 1/10W
R3320	1-216-821-11	METAL CHIP	1K 5% 1/10W	R3816	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R3321	1-216-821-11	METAL CHIP	1K 5% 1/10W	R3817	1-216-841-11	METAL CHIP	47K 5% 1/10W
R3327	1-216-817-11	METAL CHIP	470 5% 1/10W	R3818	1-216-813-11	METAL CHIP	220 5% 1/10W
R3400	1-216-864-11	SHORT CHIP	0	R3820	1-216-864-11	SHORT CHIP	0
R3401	1-216-821-11	METAL CHIP	1K 5% 1/10W	R3821	1-216-864-11	SHORT CHIP	0
R3403	1-218-843-11	METAL CHIP	680 0.5% 1/10W	R3822	1-216-818-11	METAL CHIP	560 5% 1/10W
R3405	1-216-797-11	METAL CHIP	10 5% 1/10W	R3823	1-216-864-11	SHORT CHIP	0
R3406	1-216-864-11	SHORT CHIP	0	R3825	1-216-817-11	METAL CHIP	470 5% 1/10W
R3408	1-216-797-11	METAL CHIP	10 5% 1/10W	R3826	1-216-817-11	METAL CHIP	470 5% 1/10W
R3409	1-216-864-11	SHORT CHIP	0	R3829	1-216-817-11	METAL CHIP	470 5% 1/10W
R3410	1-216-797-11	METAL CHIP	10 5% 1/10W	R3830	1-216-841-11	METAL CHIP	47K 5% 1/10W
R3412	1-216-864-11	SHORT CHIP	0	R3833	1-216-809-11	METAL CHIP	100 5% 1/10W
R3413	1-216-864-11	SHORT CHIP	0	R3834	1-216-841-11	METAL CHIP	47K 5% 1/10W
R3414	1-216-809-11	METAL CHIP	100 5% 1/10W	R3836	1-216-817-11	METAL CHIP	470 5% 1/10W
R3415	1-218-855-11	METAL CHIP	2.2K 0.5% 1/10W	R3837	1-216-817-11	METAL CHIP	470 5% 1/10W
R3416	1-218-837-11	METAL CHIP	390 0.5% 1/10W	R3838	1-216-864-11	SHORT CHIP	0
R3417	1-218-855-11	METAL CHIP	2.2K 0.5% 1/10W	R3839	1-216-817-11	METAL CHIP	470 5% 1/10W
R3421	1-216-817-11	METAL CHIP	470 5% 1/10W	R3840	1-216-864-11	SHORT CHIP	0
R3422	1-216-817-11	METAL CHIP	470 5% 1/10W	R3841	1-216-817-11	METAL CHIP	470 5% 1/10W
R3423	1-216-809-11	METAL CHIP	100 5% 1/10W	R3845	1-216-801-11	METAL CHIP	22 5% 1/10W
R3427	1-216-820-11	METAL CHIP	820 5% 1/10W	R3846	1-216-809-11	METAL CHIP	100 5% 1/10W
R3428	1-216-820-11	METAL CHIP	820 5% 1/10W	R3847	1-216-809-11	METAL CHIP	100 5% 1/10W
R3429	1-216-820-11	METAL CHIP	820 5% 1/10W	R3849	1-216-801-11	METAL CHIP	22 5% 1/10W
R3434	1-216-864-11	SHORT CHIP	0	R3850	1-218-851-11	METAL CHIP	1.5K 0.5% 1/10W
R3436	1-216-864-11	SHORT CHIP	0	R3851	1-218-859-11	METAL CHIP	3.3K 0.5% 1/10W
R3437	1-216-864-11	SHORT CHIP	0	R3852	1-218-831-11	METAL CHIP	220 0.5% 1/10W
				R3853	1-216-809-11	METAL CHIP	100 5% 1/10W

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REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
R3854	1-216-821-11	METAL CHIP	1K 5% 1/10W	R5532	1-216-821-11	METAL CHIP	1K 5% 1/10W
R3855	1-218-839-11	METAL CHIP	470 0.5% 1/10W	R5539	1-218-879-11	METAL CHIP	22K 0.5% 1/10W
R3856	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5541	1-216-864-11	SHORT CHIP	0
R3857	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R5543	1-216-838-11	METAL CHIP	27K 5% 1/10W
R3859	1-216-821-11	METAL CHIP	1K 5% 1/10W	R5544	1-216-849-11	METAL CHIP	220K 5% 1/10W
R3860	1-216-813-11	METAL CHIP	220 5% 1/10W	R5545	1-216-833-11	METAL CHIP	10K 5% 1/10W
R3861	1-216-821-11	METAL CHIP	1K 5% 1/10W	R5548	1-216-809-11	METAL CHIP	100 5% 1/10W
R3862	1-216-809-11	METAL CHIP	100 5% 1/10W	R5549	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R3863	1-216-864-11	SHORT CHIP	0	R5550	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R3864	1-216-809-11	METAL CHIP	100 5% 1/10W	R5551	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R3865	1-216-864-11	SHORT CHIP	0	R5552	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R3866	1-216-864-11	SHORT CHIP	0	R5555	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R3868	1-216-817-11	METAL CHIP	470 5% 1/10W	R5556	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R3869	1-216-864-11	SHORT CHIP	0	R5557	1-216-809-11	METAL CHIP	100 5% 1/10W
R3870	1-218-907-11	METAL CHIP	330K 0.5% 1/10W	R5558	1-216-809-11	METAL CHIP	100 5% 1/10W
R3871	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R5559	1-216-864-11	SHORT CHIP	0
R3874	1-216-819-11	METAL CHIP	680 5% 1/10W	R5560	1-216-833-11	METAL CHIP	10K 5% 1/10W
R3875	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R5561	1-216-821-11	METAL CHIP	1K 5% 1/10W
R3876	1-218-835-11	METAL CHIP	330 0.5% 1/10W	R5569	1-216-864-11	SHORT CHIP	0
R3877	1-216-832-11	METAL CHIP	8.2K 5% 1/10W	R5576	1-216-864-11	SHORT CHIP	0
R3878	1-216-813-11	METAL CHIP	220 5% 1/10W	R5577	1-216-864-11	SHORT CHIP	0
R3879	1-216-809-11	METAL CHIP	100 5% 1/10W	R5578	1-216-864-11	SHORT CHIP	0
R3881	1-216-833-11	METAL CHIP	10K 5% 1/10W	R5579	1-216-864-11	SHORT CHIP	0
R3882	1-216-809-11	METAL CHIP	100 5% 1/10W	R5580	1-216-864-11	SHORT CHIP	0
R3883	1-216-809-11	METAL CHIP	100 5% 1/10W	< RESISTOR CHIP >			
R3884	1-218-859-11	METAL CHIP	3.3K 0.5% 1/10W	RB0030	1-233-576-11	RES, CHIP NETWORK	100
R3888	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	RB0031	1-233-576-11	RES, CHIP NETWORK	100
R3890	1-216-864-11	SHORT CHIP	0	RB0032	1-233-576-11	RES, CHIP NETWORK	100
R3892	1-216-864-11	SHORT CHIP	0	RB0033	1-233-576-11	RES, CHIP NETWORK	100
R3893	1-216-835-11	METAL CHIP	15K 5% 1/10W	RB0034	1-233-576-11	RES, CHIP NETWORK	100
R3894	1-216-817-11	METAL CHIP	470 5% 1/10W	RB0035	1-233-576-11	RES, CHIP NETWORK	100
R5501	1-216-821-11	METAL CHIP	1K 5% 1/10W	RB0036	1-233-576-11	RES, CHIP NETWORK	100
R5502	1-216-809-11	METAL CHIP	100 5% 1/10W	RB0037	1-233-576-11	RES, CHIP NETWORK	100
R5503	1-216-817-11	METAL CHIP	470 5% 1/10W	RB0038	1-233-576-11	RES, CHIP NETWORK	100
R5504	1-216-809-11	METAL CHIP	100 5% 1/10W	RB0039	1-233-576-11	RES, CHIP NETWORK	100
R5505	1-216-809-11	METAL CHIP	100 5% 1/10W	RB0043	1-233-576-11	RES, CHIP NETWORK	100
R5507	1-216-809-11	METAL CHIP	100 5% 1/10W	RB0044	1-233-576-11	RES, CHIP NETWORK	100
R5508	1-216-797-11	METAL CHIP	10 5% 1/10W	RB0045	1-233-576-11	RES, CHIP NETWORK	100
R5510	1-216-809-11	METAL CHIP	100 5% 1/10W	RB0050	1-233-576-11	RES, CHIP NETWORK	100
R5511	1-216-809-11	METAL CHIP	100 5% 1/10W	RB0051	1-233-576-11	RES, CHIP NETWORK	100
R5512	1-216-838-11	METAL CHIP	27K 5% 1/10W	RB0052	1-233-576-11	RES, CHIP NETWORK	100
R5513	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	RB0053	1-233-576-11	RES, CHIP NETWORK	100
R5516	1-218-831-11	METAL CHIP	220 0.5% 1/10W	RB0054	1-233-576-11	RES, CHIP NETWORK	100
R5517	1-216-809-11	METAL CHIP	100 5% 1/10W	RB0055	1-233-576-11	RES, CHIP NETWORK	100
R5518	1-216-809-11	METAL CHIP	100 5% 1/10W	RB3100	1-234-523-21	RES, CHIP NETWORK	0 (3216)
R5523	1-218-855-11	METAL CHIP	2.2K 0.5% 1/10W	RB3101	1-234-523-21	RES, CHIP NETWORK	0 (3216)
R5524	1-216-838-11	METAL CHIP	27K 5% 1/10W	RB3800	1-239-621-11	NETWORK RESISTOR (CHIP)	22
R5526	1-216-821-11	METAL CHIP	1K 5% 1/10W	RB3801	1-239-621-11	NETWORK RESISTOR (CHIP)	22
R5528	1-216-833-11	METAL CHIP	10K 5% 1/10W	RB3802	1-239-621-11	NETWORK RESISTOR (CHIP)	22
R5529	1-216-833-11	METAL CHIP	10K 5% 1/10W				

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
R83803	1-239-621-11	NETWORK RESISTOR (CHIP) 22		C6832	1-162-966-11	CERAMIC CHIP 0.00220F	10.00% 50V
R83804	1-239-621-11	NETWORK RESISTOR (CHIP) 22		C6833	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V
R83805	1-239-621-11	NETWORK RESISTOR (CHIP) 22		C6834	1-126-964-11	ELECT 100P	20.00% 50V
R83806	1-239-621-11	NETWORK RESISTOR (CHIP) 22		C6835	1-165-607-11	FILM 10000PF	3% 900V
R83807	1-239-621-11	NETWORK RESISTOR (CHIP) 22		C6836	1-130-495-00	MYLAR 0.10F	5.00% 50V
R83808	1-239-621-11	NETWORK RESISTOR (CHIP) 22		C6837	1-130-471-00	MYLAR 0.0010F	5.00% 50V
< CRYSTAL >				C6838	1-130-495-00	MYLAR 0.10F	5.00% 50V
X0001	1-567-162-00	OSCILLATOR, CRYSTAL		C6839	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V
X3100	1-781-946-21	VIBRATOR, CRYSTAL		C6840	1-165-319-11	CERAMIC CHIP 0.10F	50V
X3300	1-781-946-21	VIBRATOR, CRYSTAL		C8900	1-162-129-00	CERAMIC 150PF	10.00% 2KV
X3400	1-795-058-21	VIBRATOR, CERAMIC		C8901	1-162-131-11	CERAMIC 220PF	10.00% 2KV
X3800	1-767-127-11	VIBRATOR, CERAMIC		C8902	1-129-898-00	FILM 0.00220F	5.00% 630V
X3801	1-567-504-11	OSCILLATOR, CRYSTAL		C8903	1-107-635-11	ELECT 4.7UF	20.00% 160V
*A-1302-549-A D2 Board, Complete				C8904	1-137-150-11	FILM 0.010F	5.00% 100V
4-382-854-01	SCREW (M3X8), P, SW (+)			C8905	1-136-205-11	MYLAR 0.0220F	5.00% 630V
< CAPACITOR >				C8907	1-126-947-11	ELECT 47UF	20.00% 35V
C6800	1-162-964-11	CERAMIC CHIP 0.0010F	10.00% 50V	C8908	1-216-809-11	METAL CHIP 100	5% 1/10W
C6801	1-126-964-11	ELECT 100P	20.00% 50V	< CONNECTOR >			
C6802	1-126-964-11	ELECT 100P	20.00% 50V	CN6800	1-695-915-11	TAB (CONTACT)	
C6803	1-126-960-11	ELECT 10P	20.00% 50V	CN6801	*1-564-510-11	PLUG, CONNECTOR 7P	
C6804	1-162-964-11	CERAMIC CHIP 0.0010F	10.00% 50V	CN6802	1-817-917-11	HEADER ASSEMBLY FOR PCB	
C6805	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V	CN6803	*1-564-510-11	PLUG, CONNECTOR 7P	
C6806	1-117-228-71	MYLAR 2.2UF	10.00% 450V	CN6804	1-695-915-11	TAB (CONTACT)	
C6807	1-128-551-11	ELECT 22UF	20.00% 63V	CN6805	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
C6808	1-126-964-11	ELECT 100P	20.00% 50V	< DIODE >			
C6809	1-136-813-11	FILM 680PF	5.00% 100V	D6800	8-719-069-56	DIODE UD2578-176.2B	
C6810	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V	D6802	8-719-081-97	DIODE MMDL914T1	
C6811	1-162-966-11	CERAMIC CHIP 0.00220F	10.00% 50V	D6803	8-719-081-97	DIODE MMDL914T1	
C6812	1-130-495-00	MYLAR 0.10F	5.00% 50V	D6809	8-719-083-94	DIODE FUF4005	
C6813	1-126-947-11	ELECT 47UF	20.00% 35V	D6814	8-719-063-73	DIODE D1ML200-TR	
C6814	1-126-967-11	ELECT 47UF	20.00% 50V	D6815	8-719-976-99	DIODE DTS.1B	
C6815	1-162-115-00	CERAMIC 330PF	10.00% 1KV	D6816	8-719-081-98	DIODE MMS324VBT1	
C6816	1-137-192-91	FILM 0.33UF	5.00% 50V	D6817	8-719-063-70	DIODE D1ML200	
C6817	1-136-165-00	FILM 0.10F	5.00% 50V	D6818	8-719-082-03	DIODE MMS3215VT1	
C6818	1-162-115-00	CERAMIC 330PF	10.00% 1KV	D6819	8-719-082-03	DIODE MMS3215VT1	
C6819	1-165-953-11	FILM 47000PF	3% 800V	D6820	8-719-081-97	DIODE MMDL914T1	
C6820	1-136-189-00	MYLAR 0.10F	10.00% 250V	D6821	8-719-083-66	DIODE UD2578-171.8B	
C6821	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V	D6822	8-719-081-97	DIODE MMDL914T1	
C6823	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V	D6824	8-719-081-97	DIODE MMDL914T1	
C6824	1-126-963-11	ELECT 4.7UF	20.00% 50V	D6825	8-719-081-97	DIODE MMDL914T1	
C6825	1-126-969-11	ELECT 220UF	20.00% 50V	D6826	8-719-082-00	DIODE MMS324VTT1	
C6826	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V	D6827	1-216-864-11	SHORT CHIP 0	
C6827	1-115-340-11	CERAMIC CHIP 0.220F	10.00% 25V	D8900	8-719-949-45	DIODE ERA22-08	
C6828	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V	D8901	8-719-991-33	DIODE 1SS133T-77	
C8929	1-104-664-21	ELECT 470P	20.00% 25V	< FERRITE BEAD >			
D8931	1-126-966-11	ELECT 330P	20.00% 50V	FD6800	1-410-397-21	FERRITE 1.1UH	
				FD8900	1-410-397-21	FERRITE 1.1UH	

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
< IC >				R6817	1-249-393-11	CARBON	10 5% 1/4W
IC6800	8-759-586-17	IC TL1431C2-AP		R6818	1-216-803-11	METAL CHIP	33 5% 1/20W
IC6801	8-759-700-07	IC NJM2903M		R6819	1-218-823-11	METAL CHIP	100 0.5% 1/10W
IC6802	6-703-355-01	IC MC23001DA		R6820	1-216-833-11	METAL CHIP	10K 5% 1/10W
IC6803	8-759-198-31	IC UPC10931-1-T		R6821	1-216-837-11	METAL CHIP	22K 5% 1/10W
IC6804	8-759-701-01	IC NJM2904M		R6823	1-249-393-11	CARBON	10 5% 1/4W
< COIL >				R6824	1-218-897-11	METAL CHIP	120K 0.5% 1/10W
L6800	1-428-950-31	INDUCTOR 125UH		R6825	1-216-833-11	METAL CHIP	10K 5% 1/10W
L6801	*1-412-520-11	INDUCTOR 3.9UH		R6826	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
L6802	*1-412-520-11	INDUCTOR 3.9UH		R6829	1-245-494-21	METAL	2.2M 2% 1/4W
L8900	1-406-674-11	INDUCTOR 3.3MH		R6830	1-249-431-11	CARBON	15K 5% 1/4W
< PHOTOCOUPLER >				R6832	1-245-494-21	METAL	2.2M 2% 1/4W
PH6800	6-600-187-01	PHOTO COUPLER PC123Y22JOCF		R6833	1-249-377-11	CARBON	0.47 5% 1/4W
PH6801	6-600-187-01	PHOTO COUPLER PC123Y22JOCF		R6834	1-243-979-21	METAL OXIDE	0.1 5% 2W
< TRANSISTOR >				R6835	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q6800	8-729-010-29	TRANSISTOR MSD601-RST1		R6836	1-216-864-11	SHORT CHIP	0
Q6801	8-729-010-29	TRANSISTOR MSD601-RST1		R6837	1-249-419-11	CARBON	1.5K 5% 1/4W
Q6802	6-550-526-11	TRANSISTOR 2SK2842 (LBS2SONY)		R6838	1-260-095-11	CARBON	470 5% 1/2W
Q6803	6-550-526-11	TRANSISTOR 2SK2842 (LBS2SONY)		R6839	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q6804	8-729-010-05	TRANSISTOR MSB709-RT1		R6840	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
Q6806	8-729-421-22	TRANSISTOR UN2211		R6841	1-218-855-11	METAL CHIP	2.2K 0.5% 1/10W
Q6807	8-729-010-05	TRANSISTOR MSB709-RT1		R6842	1-218-857-11	METAL CHIP	2.7K 0.5% 1/10W
Q6808	8-729-421-22	TRANSISTOR UN2211		R6843	1-216-863-11	METAL CHIP	3.3M 5% 1/10W
Q6809	8-729-010-05	TRANSISTOR MSB709-RT1		R6844	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W
Q6810	8-729-010-29	TRANSISTOR MSD601-RST1		R6845	1-218-895-11	METAL CHIP	100K 0.5% 1/10W
Q6811	8-729-901-06	TRANSISTOR DTA144EK		R6846	1-216-837-11	METAL CHIP	22K 5% 1/10W
Q6812	8-729-010-05	TRANSISTOR MSB709-RT1		R6848	1-216-853-11	METAL CHIP	470K 5% 1/10W
Q6813	8-729-010-29	TRANSISTOR MSD601-RST1		R6849	1-216-834-11	METAL CHIP	12K 5% 1/10W
Q8900	8-729-010-29	TRANSISTOR MSD601-RST1		R6852	1-216-809-11	METAL CHIP	100 5% 1/10W
Q8901	6-550-700-01	TRANSISTOR STP5NK40Z (033Y)		R6853	1-216-833-11	METAL CHIP	10K 5% 1/10W
< RESISTOR >				R6854	1-216-849-11	METAL CHIP	220K 5% 1/10W
R6800	1-216-837-11	METAL CHIP 22K 5%	1/10W	R6855	1-216-797-11	METAL CHIP	10 5% 1/10W
R6801	1-216-849-11	METAL CHIP 220K 5%	1/10W	R6857	1-216-841-11	METAL CHIP	47K 5% 1/10W
R6802	1-216-841-11	METAL CHIP 47K 5%	1/10W	R6858	1-216-837-11	METAL CHIP	22K 5% 1/10W
R6803	1-216-837-11	METAL CHIP 22K 5%	1/10W	R6859	1-216-841-11	METAL CHIP	47K 5% 1/10W
R6804	1-247-843-11	CARBON 3.3K 5%	1/4W	R6860	1-216-821-11	METAL CHIP	1K 5% 1/10W
R6805	1-218-875-11	METAL CHIP 15K 0.5%	1/10W	R6861	1-215-485-00	METAL	470K 1% 1/4W
R6807	1-218-845-11	METAL CHIP 820 0.5%	1/10W	R6862	1-216-841-11	METAL CHIP	47K 5% 1/10W
R6808	1-202-933-61	FUSIBLE 0.1 10%	1/2W	R6863	1-218-853-11	METAL CHIP	1.8K 0.5% 1/10W
R6809	1-218-874-11	METAL CHIP 13K 0.5%	1/10W	R6865	1-249-411-11	CARBON	330 5% 1/4W
R6810	1-218-869-11	METAL CHIP 8.2K 0.5%	1/10W	R6866	1-219-749-51	METAL	10K 5% 1/2W
R6812	1-245-478-21	METAL 470K 1%	1/4W	R6867	1-215-485-00	METAL	470K 1% 1/4W
R6813	1-245-478-21	METAL 470K 1%	1/4W	R6869	1-218-865-11	METAL CHIP	5.6K 0.5% 1/10W
R6814	1-218-912-11	METAL CHIP 510K 0.5%	1/10W	R6870	1-219-750-91	METAL	22K 5% 1/2W
R6815	1-216-864-11	SHORT CHIP 0		R6871	1-216-845-11	METAL CHIP	100K 5% 1/10W
R6816	1-218-839-11	METAL CHIP 470 0.5%	1/10W	R6873	1-218-887-91	RES CHIP	47K 0.5% 1/10W
				R6874	1-218-895-11	METAL CHIP	100K 0.5% 1/10W
				R6875	1-216-821-11	METAL CHIP	1K 5% 1/10W
				R6877	1-215-433-00	METAL	3.3K 1% 1/4W
				R6878	1-215-447-00	METAL	12K 1% 1/4W

Note: The components identified by shading and marked **A** are critical for safety. Replace only with the part numbers specified in the parts list.

**D2**

**A**

**A**

REF.NO.	PART.NO.	DESCRIPTION	REMARK
R6879	1-215-447-00	METAL	12K 1% 1/4W
R6880	1-215-447-00	METAL	12K 1% 1/4W
R6881	1-215-447-00	METAL	12K 1% 1/4W
R6883	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
R6884	1-216-821-11	METAL CHIP	1K 5% 1/10W
R6900	1-243-618-21	METAL OXIDE	10K 5% 3W
R6901	1-260-123-11	CARBON	100K 5% 1/2W
R6902	1-243-619-21	METAL OXIDE	12K 5% 3W
R6903	1-243-619-21	METAL OXIDE	12K 5% 3W
R6904	1-249-429-11	CARBON	10K 5% 1/4W
R6905	1-243-619-21	METAL OXIDE	12K 5% 3W
R6906	1-243-618-21	METAL OXIDE	10K 5% 3W
R6907	1-260-123-11	CARBON	100K 5% 1/2W
R6908	1-260-123-11	CARBON	100K 5% 1/2W
R6909	1-260-123-11	CARBON	100K 5% 1/2W
R6910	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R6911	1-216-821-11	METAL CHIP	1K 5% 1/10W
R6912	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W
< RESISTOR VARIABLE >			
RV6801	7-320-000-92	RESIN (RTV-133)	
< SPARK GAP >			
SG6800	1-517-499-21	GAP, SPARK	
< TRANSFORMER >			
T6800 <b>A</b>	1-598-071-11	TRANSFORMER ASST, FLTRBACK WX-6020//H	
T6900	1-437-690-11	TRANSFORMER, FERRITE (DPT)	
<b>*A-1302-550-A A Board, Complete KV-32FQ85B</b>			
<b>*A-1302-333-A A Board, Complete KV-32FQ85E</b>			
<b>A Board, Common Parts</b>			
4-382-854-01	SCREW (M3X8), P, SW (+)		
4-382-854-01	SCREW (M3X8), P, SW (+)		
< CAPACITOR >			
C1103	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C1104	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C1105	1-126-967-11	ELECT	470F 20.00% 50V
C1106	1-162-968-11	CERAMIC CHIP 0.00470F	10.00% 50V
C1107	1-126-933-91	ELECT	100MF 20.00% 16V
C1109	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
C1300	1-162-968-11	CERAMIC CHIP 0.00470F	10.00% 50V
C1302	1-216-864-11	SHORT CHIP 0	0.00% 50V
C1304	1-216-864-11	SHORT CHIP 0	0.00% 50V
C1307	1-125-891-11	CERAMIC CHIP 0.470F	10.00% 10V
C2000	1-126-947-11	ELECT	470F 20.00% 35V
C2001	1-164-156-11	CERAMIC CHIP 0.10F	25V

REF.NO.	PART.NO.	DESCRIPTION	REMARK
C2002	1-126-947-11	ELECT	470F 20.00% 35V
C2004	1-164-004-11	CERAMIC CHIP 0.10F	10.00% 25V
C2005	1-127-715-91	CERAMIC CHIP 0.220F	10% 16V
C2006	1-126-947-11	ELECT	470F 20.00% 35V
C2007	1-162-966-11	CERAMIC CHIP 0.00220F	10.00% 50V
C2009	1-127-715-91	CERAMIC CHIP 0.220F	10% 16V
C2010	1-127-715-91	CERAMIC CHIP 0.220F	10% 16V
C2011	1-162-966-11	CERAMIC CHIP 0.00220F	10.00% 50V
C2012	1-162-966-11	CERAMIC CHIP 0.00220F	10.00% 50V
C2013	1-162-966-11	CERAMIC CHIP 0.00220F	10.00% 50V
C2014	1-127-715-91	CERAMIC CHIP 0.220F	10% 16V
C2016	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2017	1-126-964-11	ELECT	100F 20.00% 50V
C2018	1-126-964-11	ELECT	100F 20.00% 50V
C2019	1-126-947-11	ELECT	470F 20.00% 35V
C2020	1-126-947-11	ELECT	470F 20.00% 35V
C2021	1-164-156-11	CERAMIC CHIP 0.10F	25V
C2022	1-126-964-11	ELECT	100F 20.00% 50V
C2023	1-164-156-11	CERAMIC CHIP 0.10F	25V
C2024	1-126-964-11	ELECT	100F 20.00% 50V
C2026	1-164-156-11	CERAMIC CHIP 0.10F	25V
C2027	1-164-156-11	CERAMIC CHIP 0.10F	25V
C2028	1-162-906-11	CERAMIC CHIP 1.5PF	0.25PF 50V
C2029	1-162-906-11	CERAMIC CHIP 1.5PF	0.25PF 50V
C2030	1-127-715-91	CERAMIC CHIP 0.220F	10% 16V
C2031	1-127-715-91	CERAMIC CHIP 0.220F	10% 16V
C2032	1-127-715-91	CERAMIC CHIP 0.220F	10% 16V
C2040	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2200	1-126-960-11	ELECT	10F 20.00% 50V
C2201	1-164-004-11	CERAMIC CHIP 0.10F	10.00% 25V
C2202	1-126-960-11	ELECT	10F 20.00% 50V
C2203	1-126-963-11	ELECT	4.70F 20.00% 50V
C2204	1-126-960-11	ELECT	10F 20.00% 50V
C2205	1-126-960-11	ELECT	10F 20.00% 50V
C2206	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V
C2207	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V
C2300	1-126-935-11	ELECT	4700F 20.00% 16V
C2301	1-126-947-11	ELECT	470F 20.00% 35V
C2302	1-126-947-11	ELECT	470F 20.00% 35V
C2303	1-126-947-11	ELECT	470F 20.00% 35V
C2304	1-126-947-11	ELECT	470F 20.00% 35V
C2305	1-107-826-11	CERAMIC CHIP 0.10F	10.00% 16V
C2306	1-107-826-11	CERAMIC CHIP 0.10F	10.00% 16V
C2400	1-136-175-00	FILM	0.680F 5.00% 50V
C2401	1-165-128-11	CERAMIC CHIP 0.220F	10% 16V
C2402	1-163-135-00	CERAMIC CHIP 560PF	5.00% 50V
C2403	1-115-339-11	CERAMIC CHIP 0.10F	10.00% 50V
C2404	1-162-966-11	CERAMIC CHIP 0.00220F	10.00% 50V
C2405	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2406	1-163-021-91	CERAMIC CHIP 0.010F	10.00% 50V

REF.NO.	PART.NO.	DESCRIPTION	REMARK
C2407	1-164-505-11	CERAMIC CHIP 2.20F	16V
C2408	1-126-963-11	ELECT	4.70F 20.00% 50V
C2409	1-115-339-11	CERAMIC CHIP 0.10F	10.00% 50V
C2410	1-164-156-11	CERAMIC CHIP 0.10F	25V
C2411	1-164-156-11	CERAMIC CHIP 0.10F	25V
C2412	1-126-943-11	ELECT	22000F 20.00% 25V
C2413	1-126-943-11	ELECT	22000F 20.00% 25V
C2414	1-164-156-11	CERAMIC CHIP 0.10F	25V
C2500	1-107-914-11	ELECT	10000F 20.00% 50V
C2501	1-107-914-11	ELECT	10000F 20.00% 50V
C2502	1-164-156-11	CERAMIC CHIP 0.10F	25V
C2503	1-164-156-11	CERAMIC CHIP 0.10F	25V
C2504	1-126-959-91	ELECT	0.470F 20.00% 50V
C2505	1-107-888-91	ELECT	470F 20.00% 25V
C2506	1-107-888-91	ELECT	470F 20.00% 25V
C2507	1-126-959-91	ELECT	0.470F 20.00% 50V
C2512	1-164-004-11	CERAMIC CHIP 0.10F	10.00% 25V
C2513	1-164-004-11	CERAMIC CHIP 0.10F	10.00% 25V
C2514	1-107-907-11	ELECT	220F 20.00% 50V
C2603	1-107-826-11	CERAMIC CHIP 0.10F	10.00% 16V
C2619	1-107-826-11	CERAMIC CHIP 0.10F	10.00% 16V
C5103	1-126-960-11	ELECT	10F 20.00% 50V
C5106	1-126-933-11	ELECT	1000F 20.00% 16V
C5109	1-126-964-11	ELECT	100F 20.00% 50V
C5110	1-126-947-11	ELECT	470F 20.00% 35V
C5111	1-126-964-11	ELECT	100F 20.00% 50V
C5112	1-126-964-11	ELECT	100F 20.00% 50V
C5116	1-126-964-11	ELECT	100F 20.00% 50V
C5117	1-126-947-11	ELECT	470F 20.00% 35V
C5118	1-164-156-11	CERAMIC CHIP 0.10F	25V
C5119	1-107-823-11	CERAMIC CHIP 0.470F	10.00% 16V
C5120	1-165-176-11	CERAMIC CHIP 0.0470F	10.00% 16V
C5121	1-165-176-11	CERAMIC CHIP 0.0470F	10.00% 16V
C5122	1-164-156-11	CERAMIC CHIP 0.10F	25V
C5123	1-126-947-11	ELECT	470F 20.00% 35V
C5124	1-164-156-11	CERAMIC CHIP 0.10F	25V
C5125	1-126-964-11	ELECT	100F 20.00% 50V
C5126	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V
C5201	1-126-947-11	ELECT	470F 20.00% 35V
C5202	1-164-156-11	CERAMIC CHIP 0.10F	25V
C5203	1-164-156-11	CERAMIC CHIP 0.10F	25V
C5204	1-164-156-11	CERAMIC CHIP 0.10F	25V
C5205	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V
C5206	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V
C5207	1-165-176-11	CERAMIC CHIP 0.0470F	10.00% 16V
C5208	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V
C5209	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V
C5210	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V
C5214	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V
C5215	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V

REF.NO.	PART.NO.	DESCRIPTION	REMARK
C5217	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V
C5218	1-162-970-11	CERAMIC CHIP 0.010F	10.00% 25V
C5219	1-126-964-11	ELECT	100F 20.00% 50V
C5403	1-126-941-11	ELECT	4700F 20.00% 25V
C5404	1-102-228-00	CERAMIC	4702F 10.00% 500V
C5405	1-164-156-11	CERAMIC CHIP 0.10F	25V
C5406	1-115-416-11	CERAMIC CHIP 0.0010F	5.00% 25V
C5407	1-126-941-11	ELECT	4700F 20.00% 25V
C5409	1-126-968-11	ELECT	1000F 20.00% 50V
C5410	1-164-156-11	CERAMIC CHIP 0.10F	25V
C5411	1-137-401-11	MYLAR	0.220F 5.00% 100V
C5412	1-106-220-00	MYLAR	0.10F 10.00% 100V
C5413	1-130-785-11	MYLAR	0.470F 5.00% 100V
C6200	1-164-156-11	CERAMIC CHIP 0.10F	25V
C6202	1-126-767-11	ELECT	10000F 20.00% 16V
C6203	1-164-156-11	CERAMIC CHIP 0.10F	25V
C6206	1-104-665-11	ELECT	1000F 20.00% 25V
C6208	1-126-767-11	ELECT	10000F 20.00% 16V
C6209	1-104-665-11	ELECT	1000F 20.00% 25V
C6217	1-126-767-11	ELECT	10000F 20.00% 16V
C6223	1-136-165-00	FILM	0.10F 5.00% 50V
C6226	1-128-942-31	ELECT	10000F 20% 6.3V
C6229	1-126-935-11	ELECT	4700F 20.00% 16V
C6231	1-136-165-00	FILM	0.10F 5.00% 50V
C6232	1-128-942-31	ELECT	10000F 20% 6.3V
C6233	1-126-935-11	ELECT	4700F 20.00% 16V
C6234	1-136-165-00	FILM	0.10F 5.00% 50V
C6235	1-128-550-11	ELECT	22000F 20.00% 50V
C6236	1-128-942-31	ELECT	10000F 20% 6.3V
C6237	1-126-767-11	ELECT	10000F 20.00% 16V
C6238	1-136-165-00	FILM	0.10F 5.00% 50V
C6239	1-104-665-11	ELECT	1000F 20.00% 25V
C6240	1-164-156-11	CERAMIC CHIP 0.10F	25V
C6241	1-164-156-11	CERAMIC CHIP 0.10F	25V
C6242	1-104-665-11	ELECT	1000F 20.00% 25V
C6243	1-104-665-11	ELECT	1000F 20.00% 25V
C6244	1-164-156-11	CERAMIC CHIP 0.10F	25V
C6245	1-164-156-11	CERAMIC CHIP 0.10F	25V
C6246	1-104-665-11	ELECT	1000F 20.00% 25V
C6247	1-104-665-11	ELECT	1000F 20.00% 25V
C6248	1-164-156-11	CERAMIC CHIP 0.10F	25V
C6249	1-164-156-11	CERAMIC CHIP 0.10F	25V
C6250	1-104-665-11	ELECT	1000F 20.00% 25V
C6251	1-104-665-11	ELECT	1000F 20.00% 25V
C6252	1-126-963-11	ELECT	4.70F 20.00% 50V
C6253	1-164-156-11	CERAMIC CHIP 0.10F	25V
C6254	1-137-374-11	MYLAR	0.0470F 5.00% 50V
C6255	1-126-935-11	ELECT	4700F 20.00% 16V
C6256	1-126-947-11	ELECT	470F 20.00% 35V

A

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
< CONNECTOR >				D6207	8-719-081-97	DICOD MMDL91471	
CN0002	*1-564-507-11	PLUG, CONNECTOR 4P		D6208	8-719-081-97	DICOD MMDL91471	
CN2300	*1-564-510-11	PLUG, CONNECTOR 7P		D6209	8-719-081-97	DICOD MMDL91471	
CN2301	*1-564-509-11	PLUG, CONNECTOR 6P		D6210	8-719-110-41	DICOD RD158SB2	
CN2302	*1-564-511-11	PLUG, CONNECTOR 8P		D6211	8-719-080-59	DICOD XK19-Y0	
CN2400	*1-816-974-51	PLUG, CONNECTOR 3P					
CN2501	*1-564-507-11	PLUG, CONNECTOR 4P		D6212	8-719-022-97	DICOD D2S4MF	
CN3000	*1-564-510-11	PLUG, CONNECTOR 7P		D6213	8-719-022-97	DICOD D2S4MF	
CN3001	1-691-773-11	PLUG (MICRO CONNECTOR) 11P		D6214	8-719-056-84	DICOD UD2-TB-17-7.5B	
CN3002	*1-817-115-11	CONNECTOR BRD TO BRD 35P		< IC >			
CN3004	*1-816-974-51	PLUG, CONNECTOR 3P		IC2000	6-701-031-11	IC MSP3411G-QA-B11	
CN3008	1-691-775-11	PLUG (MICRO CONNECTOR) 13P		IC2200	8-759-100-96	IC UPC4558G2	
CN5207	*1-818-034-11	DIN CONNECTOR PLUG		IC2300	8-759-576-76	IC TDA282ZD013TR	
CN5209	*1-564-520-11	PLUG, CONNECTOR 5P		IC2400	8-759-544-25	IC TDA7482	
CN6200	*1-816-977-51	PLUG, CONNECTOR 6P		IC2500	6-704-807-01	IC TDA7269	
CN6201	*1-564-510-11	PLUG, CONNECTOR 7P		IC5102	8-759-325-48	IC CA0005AD	
CN6202	*1-564-510-11	PLUG, CONNECTOR 7P		IC5104	8-759-803-42	IC LA6500-FA	
CN6203	1-695-915-11	TAB (CONTACT)		IC5400	8-759-696-71	IC STV9379A	
CN6900	*1-564-510-11	PLUG, CONNECTOR 7P		IC6200	8-759-648-20	IC L7805CV/LSY	
< DIODE >				IC6202	8-759-640-19	IC PQ1CG2032FZ	
D2002	8-719-081-97	DICOD MMDL91471		IC6204	8-759-648-19	IC L7809CV/LSY	
D2200	8-719-929-15	DICOD E2S9.1NB2		IC6207	8-759-640-19	IC PQ1CG2032FZ	
D2201	8-719-929-15	DICOD E2S9.1NB2		IC6209	8-759-640-19	IC PQ1CG2032FZ	
D2202	8-719-050-38	DICOD M1MAL52WK-T1		IC6210	8-759-445-59	IC BA033T	
D2500	8-719-050-38	DICOD M1MAL52WK-T1		IC6211	6-701-848-01	IC KP2580T	
D5100	8-719-081-97	DICOD MMDL91471		IC6212	8-759-474-09	IC SI-8050S-LF1101	
D5103	8-719-110-86	DICOD RD39ESB		< SOCKET >			
D5104	8-719-976-99	DICOD CT55.1B		J2200	1-784-632-11	JACK, PIN 2P	
D5200	8-719-081-97	DICOD MMDL91471		< COIL >			
D5201	8-719-081-98	DICOD M6316V8T1		L1100	1-414-760-21	FERRITE 00H	
D5202	8-719-081-97	DICOD MMDL91471		L1101	1-414-760-21	FERRITE 00H	
D5203	8-719-081-97	DICOD MMDL91471		L1102	1-408-615-31	INDUCTOR 1000H	
D5204	8-719-081-97	DICOD MMDL91471		L1103	1-408-603-21	MICRO IND (KL TYPE) 100H	
D5205	8-719-081-97	DICOD MMDL91471		L1104	1-412-979-21	INDUCTOR 10H	
D5206	8-719-081-97	DICOD MMDL91471		L1301	1-408-602-31	INDUCTOR 8.20H	
D5207	8-719-081-97	DICOD MMDL91471		L2000	1-414-928-21	INDUCTOR 10H	
D5208	8-719-081-97	DICOD MMDL91471		L2001	1-414-928-21	INDUCTOR 10H	
D5209	8-719-081-97	DICOD MMDL91471		L2011	1-414-928-21	INDUCTOR 10H	
D5210	8-719-081-97	DICOD MMDL91471		L2400	1-406-977-21	INDUCTOR 1000H	
D5211	8-719-081-97	DICOD MMDL91471		L5400	1-412-525-31	INDUCTOR 100H	
D5212	8-719-081-97	DICOD MMDL91471		L6203	1-419-743-11	INDUCTOR 1000H	
D5404	8-719-110-41	DICOD RD158SB2		L6207	1-412-525-31	INDUCTOR 100H	
D5405	8-719-908-03	DICOD 3P09D		L6213	1-412-539-11	INDUCTOR 1500H	
D6201	8-719-022-97	DICOD D2S4MF		L6214	1-419-743-11	INDUCTOR 1000H	
D6203	8-719-063-70	DICOD 21ML200		L6215	1-412-525-31	INDUCTOR 100H	
D6204	8-719-063-70	DICOD 21ML200		L6219	1-406-971-11	INDUCTOR 100H	
D6205	8-719-050-38	DICOD M1MAL52WK-T1					
D6206	8-719-081-97	DICOD MMDL91471					

Note: The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

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REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
< PROTECTOR MODULE >				< RESISTOR >			
P82000	Δ 1-801-549-21	IC LINK 4A		JR3001	1-216-864-11	SHORT CHIP 0	
P82001	Δ 1-801-549-21	IC LINK 4A		JR3003	1-216-864-11	SHORT CHIP 0	
< TRANSISTOR >				JR3004	1-216-864-11	SHORT CHIP 0	
Q0100	8-729-028-28	TRANSISTOR 2SK2036 (TE85L)		JR3006	1-216-864-11	SHORT CHIP 0	
Q0200	8-729-028-28	TRANSISTOR 2SK2036 (TE85L)		JR3011	1-216-864-11	SHORT CHIP 0	
Q0201	8-729-028-28	TRANSISTOR 2SK2036 (TE85L)		JR6001	1-216-864-11	SHORT CHIP 0	
Q1100	8-729-010-29	TRANSISTOR MSD601-RST1		JR6002	1-216-864-11	SHORT CHIP 0	
Q1300	8-729-010-29	TRANSISTOR MSD601-RST1		JR6003	1-216-864-11	SHORT CHIP 0	
Q1301	8-729-010-05	TRANSISTOR MSB709-RT1		JR6004	1-216-864-11	SHORT CHIP 0	
Q2000	8-729-010-29	TRANSISTOR MSD601-RST1		JR6005	1-216-864-11	SHORT CHIP 0	
Q2200	8-729-010-05	TRANSISTOR MSB709-RT1		JR6006	1-216-864-11	SHORT CHIP 0	
Q2201	8-729-010-29	TRANSISTOR MSD601-RST1		JR6007	1-216-864-11	SHORT CHIP 0	
Q2202	8-729-010-29	TRANSISTOR MSD601-RST1		JR6008	1-216-864-11	SHORT CHIP 0	
Q2300	8-729-010-05	TRANSISTOR MSB709-RT1		JR6009	1-216-864-11	SHORT CHIP 0	
Q2301	8-729-010-29	TRANSISTOR MSD601-RST1		JR6013	1-216-864-11	SHORT CHIP 0	
Q2302	8-729-010-29	TRANSISTOR MSD601-RST1		JR6023	1-216-864-11	SHORT CHIP 0	
Q2400	8-729-010-05	TRANSISTOR MSB709-RT1		JR6025	1-216-864-11	SHORT CHIP 0	
Q2401	8-729-010-29	TRANSISTOR MSD601-RST1		JR6027	1-216-864-11	SHORT CHIP 0	
Q2500	8-729-010-29	TRANSISTOR MSD601-RST1		JR6028	1-216-864-11	SHORT CHIP 0	
Q2501	8-729-010-29	TRANSISTOR MSD601-RST1		JR6029	1-216-864-11	SHORT CHIP 0	
Q2502	8-729-010-29	TRANSISTOR MSD601-RST1		JR6033	1-216-864-11	SHORT CHIP 0	
Q2503	8-729-010-29	TRANSISTOR MSD601-RST1		RD001	1-216-864-11	SHORT CHIP 0	
Q2504	8-729-027-38	TRANSISTOR DTA142KA-T146		RD010	1-216-833-11	METAL CHIP 10K 5% 1/10W	
Q5100	8-729-010-05	TRANSISTOR MSB709-RT1		RD012	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
Q5101	8-729-010-29	TRANSISTOR MSD601-RST1		RD013	1-216-833-11	METAL CHIP 10K 5% 1/10W	
Q5200	8-729-010-05	TRANSISTOR MSB709-RT1		RD020	1-216-833-11	METAL CHIP 10K 5% 1/10W	
Q5201	8-729-010-29	TRANSISTOR MSD601-RST1		RD021	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
Q5202	8-729-010-05	TRANSISTOR MSB709-RT1		RD022	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
Q5203	8-729-010-29	TRANSISTOR MSD601-RST1		RD024	1-216-833-11	METAL CHIP 10K 5% 1/10W	
Q5204	8-729-010-05	TRANSISTOR MSB709-RT1		RD025	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
Q5205	8-729-010-29	TRANSISTOR MSD601-RST1		RD027	1-216-833-11	METAL CHIP 10K 5% 1/10W	
Q5206	8-729-010-05	TRANSISTOR MSB709-RT1		R1100	1-216-864-11	SHORT CHIP 0	
Q5207	8-729-010-29	TRANSISTOR MSD601-RST1		R1101	1-216-864-11	SHORT CHIP 0	
Q5208	8-729-010-29	TRANSISTOR MSD601-RST1		R1102	1-216-864-11	SHORT CHIP 0	
Q5209	8-729-010-29	TRANSISTOR MSD601-RST1		R1103	1-216-864-11	SHORT CHIP 0	
Q5210	8-729-010-29	TRANSISTOR MSD601-RST1		R1105	1-216-864-11	SHORT CHIP 0	
Q5211	8-729-010-29	TRANSISTOR MSD601-RST1		R1106	1-216-864-11	SHORT CHIP 0	
Q5404	8-729-925-76	TRANSISTOR IRP620		R1108	1-216-864-11	SHORT CHIP 0	
Q6201	8-729-010-29	TRANSISTOR MSD601-RST1		R1110	1-216-836-11	METAL CHIP 18K 5% 1/10W	
Q6202	8-729-010-05	TRANSISTOR MSB709-RT1		R1111	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q6203	8-729-010-29	TRANSISTOR MSD601-RST1		R1300	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q6204	8-729-010-05	TRANSISTOR MSB709-RT1		R1303	1-216-805-11	METAL CHIP 47 5% 1/10W	
Q6205	8-729-010-05	TRANSISTOR MSB709-RT1		R2000	1-414-760-21	FERRITE 00H	
Q6206	8-729-010-29	TRANSISTOR MSD601-RST1		R2001	1-414-760-21	FERRITE 00H	
Q6207	8-729-010-29	TRANSISTOR MSD601-RST1		R2002	1-216-845-11	METAL CHIP 100K 5% 1/10W	
Q6208	8-729-010-29	TRANSISTOR MSD601-RST1		R2003	1-216-864-11	SHORT CHIP 0	
Q6209	8-729-010-29	TRANSISTOR MSD601-RST1		R2004	1-216-864-11	SHORT CHIP 0	
				R2005	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R2006	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R2406	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2007	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R2407	1-216-833-11	METAL CHIP	10K 5% 1/10W
R2008	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R2409	1-216-864-11	SHORT CHIP	0
R2022	1-216-845-11	METAL CHIP	100K 5% 1/10W	R2410	1-216-864-11	SHORT CHIP	0
R2025	1-216-864-11	SHORT CHIP	0	R2500	1-216-089-91	RES-CHIP	47K 5% 1/10W
R2026	1-216-809-11	METAL CHIP	100 5% 1/10W	R2501	1-216-049-11	RES-CHIP	1K 5% 1/10W
R2029	1-216-864-11	SHORT CHIP	0	R2502	1-216-049-11	RES-CHIP	1K 5% 1/10W
R2030	1-216-864-11	SHORT CHIP	0	R2503	1-216-049-11	RES-CHIP	1K 5% 1/10W
R2200	1-216-837-11	METAL CHIP	22K 5% 1/10W	R2504	1-216-089-91	RES-CHIP	47K 5% 1/10W
R2201	1-216-833-11	METAL CHIP	10K 5% 1/10W	R2505	1-216-049-11	RES-CHIP	1K 5% 1/10W
R2202	1-216-837-11	METAL CHIP	22K 5% 1/10W	R2506	1-216-079-00	RES-CHIP	18K 5% 1/10W
R2203	1-216-839-11	METAL CHIP	33K 5% 1/10W	R2507	1-216-079-00	RES-CHIP	18K 5% 1/10W
R2204	1-216-839-11	METAL CHIP	33K 5% 1/10W	R2508	1-216-809-11	METAL CHIP	100 5% 1/10W
R2205	1-216-833-11	METAL CHIP	10K 5% 1/10W	R2509	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R2206	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R2510	1-216-843-11	CAP CERAMIC	10000PF 50V
R2207	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R2511	1-216-837-11	METAL CHIP	22K 5% 1/10W
R2208	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2512	1-216-835-11	METAL CHIP	15K 5% 1/10W
R2209	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2514	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
R2211	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R2515	1-216-833-11	METAL CHIP	10K 5% 1/10W
R2213	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2516	1-216-845-11	METAL CHIP	100K 5% 1/10W
R2214	1-216-817-11	METAL CHIP	470 5% 1/10W	R2517	1-216-864-11	SHORT CHIP	0
R2216	1-216-833-11	METAL CHIP	10K 5% 1/10W	R2518	1-216-081-00	RES-CHIP	22K 5% 1/10W
R2217	1-216-817-11	METAL CHIP	470 5% 1/10W	R2519	1-216-845-11	METAL CHIP	100K 5% 1/10W
R2218	1-216-833-11	METAL CHIP	10K 5% 1/10W	R2520	1-216-845-11	METAL CHIP	100K 5% 1/10W
R2220	1-216-864-11	SHORT CHIP	0	R2521	1-243-826-21	METAL OXIDE	4.7 5% 1W
R2221	1-414-760-21	FERRITE	00H	R2522	1-243-826-21	METAL OXIDE	4.7 5% 1W
R2300	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2523	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2301	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2524	1-216-864-11	SHORT CHIP	0
R2302	1-216-805-11	METAL CHIP	47 5% 1/10W	R2525	1-216-821-11	METAL CHIP	1K 5% 1/10W
R2303	1-216-805-11	METAL CHIP	47 5% 1/10W	R2526	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R2304	1-216-833-11	METAL CHIP	10K 5% 1/10W	R5102	1-218-879-11	METAL CHIP	22K 0.5% 1/10W
R2305	1-216-833-11	METAL CHIP	10K 5% 1/10W	R5103	1-218-833-11	METAL CHIP	270 0.5% 1/10W
R2306	1-216-837-11	METAL CHIP	22K 5% 1/10W	R5107	1-218-879-11	METAL CHIP	22K 0.5% 1/10W
R2307	1-216-837-11	METAL CHIP	22K 5% 1/10W	R5111	1-216-837-11	METAL CHIP	22K 5% 1/10W
R2308	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R5112	1-216-835-11	METAL CHIP	15K 5% 1/10W
R2309	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R5118	1-249-411-11	CARBON	330 5% 1/4W
R2310	1-249-389-11	CARBON	4.7 5% 1/4W	R5119	1-216-844-11	METAL CHIP	82K 5% 1/10W
R2311	1-216-809-11	METAL CHIP	100 5% 1/10W	R5122	1-216-821-11	METAL CHIP	1K 5% 1/10W
R2312	1-249-389-11	CARBON	4.7 5% 1/4W	R5125	1-216-836-11	METAL CHIP	18K 5% 1/10W
R2313	1-216-813-11	METAL CHIP	220 5% 1/10W	R5126	1-249-406-11	CARBON	120 5% 1/4W
R2314	1-216-809-11	METAL CHIP	100 5% 1/10W	R5127	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2315	1-216-813-11	METAL CHIP	220 5% 1/10W	R5141	1-216-833-11	METAL CHIP	10K 5% 1/10W
R2316	1-216-809-11	METAL CHIP	100 5% 1/10W	R5143	1-216-833-11	METAL CHIP	10K 5% 1/10W
R2317	1-216-809-11	METAL CHIP	100 5% 1/10W	R5144	1-216-821-11	METAL CHIP	1K 5% 1/10W
R2400	1-249-422-11	CARBON	2.7K 5% 1/4W	R5145	1-216-809-11	METAL CHIP	100 5% 1/10W
R2401	1-216-817-11	METAL CHIP	470 5% 1/10W	R5146	1-216-809-11	METAL CHIP	100 5% 1/10W
R2402	1-218-827-11	METAL CHIP	150 0.5% 1/10W	R5148	1-216-809-11	METAL CHIP	100 5% 1/10W
R2403	1-216-833-11	METAL CHIP	10K 5% 1/10W	R5149	1-218-833-11	METAL CHIP	270 0.5% 1/10W
R2404	1-216-821-11	METAL CHIP	1K 5% 1/10W	R5150	1-249-414-11	CARBON	560 5% 1/4W
R2405	1-216-838-11	METAL CHIP	27K 5% 1/10W	R5151	1-249-454-11	CARBON	3.9 5% 1/4W

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R5152	1-249-413-11	CARBON	470 5% 1/4W	R5248	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5153	1-249-393-11	CARBON	10 5% 1/4W	R5249	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R5154	1-216-853-11	METAL CHIP	470K 5% 1/10W	R5250	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5155	1-249-421-11	CARBON	2.2K 5% 1/4W	R5251	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5156	1-216-837-11	METAL CHIP	22K 5% 1/10W	R5252	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R5157	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	R5253	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5158	1-216-843-11	METAL CHIP	68K 5% 1/10W	R5254	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R5201	1-216-812-11	METAL CHIP	180 5% 1/10W	R5255	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5203	1-216-864-11	SHORT CHIP	0	R5256	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R5204	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5408	1-216-845-11	METAL CHIP	100K 5% 1/10W
R5205	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5409	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W
R5206	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5410	1-218-859-11	METAL CHIP	3.3K 0.5% 1/10W
R5207	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5411	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R5209	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5413	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W
R5210	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5414	1-249-383-11	CARBON	1.5 5% 1/4W
R5212	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5415	1-249-389-11	CARBON	4.7 5% 1/4W
R5213	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5416	1-243-568-21	METAL OXIDE	220 5% 2W
R5214	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5417	1-218-859-11	METAL CHIP	3.3K 0.5% 1/10W
R5215	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5420	1-214-798-21	METAL	1.8 1% 1/2W
R5216	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5421	1-214-798-21	METAL	1.8 1% 1/2W
R5217	1-216-822-11	METAL CHIP	1.2K 5% 1/10W	R6203	1-218-859-11	METAL CHIP	3.3K 0.5% 1/10W
R5218	1-216-833-11	METAL CHIP	10K 5% 1/10W	R6206	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
R5219	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6209	1-216-864-11	SHORT CHIP	0
R5220	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6211	1-218-860-11	METAL CHIP	3.6K 0.5% 1/10W
R5221	1-216-822-11	METAL CHIP	1.2K 5% 1/10W	R6214	1-216-864-11	SHORT CHIP	0
R5222	1-216-833-11	METAL CHIP	10K 5% 1/10W	R6215	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5223	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6216	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5224	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6217	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5225	1-216-822-11	METAL CHIP	1.2K 5% 1/10W	R6218	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5226	1-216-833-11	METAL CHIP	10K 5% 1/10W	R6219	1-216-841-11	METAL CHIP	47K 5% 1/10W
R5227	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6220	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5228	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6221	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5229	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6222	1-216-864-11	SHORT CHIP	0
R5230	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6223	1-216-846-11	METAL CHIP	120K 5% 1/10W
R5231	1-216-822-11	METAL CHIP	1.2K 5% 1/10W	R6224	1-216-877-91	RES CHIP	18K 0.5% 1/10W
R5232	1-216-833-11	METAL CHIP	10K 5% 1/10W	R6225	1-218-871-91	RES CHIP	10K 0.5% 1/10W
R5233	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6226	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5234	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6227	1-216-899-91	RES CHIP	150K 0.5% 1/10W
R5235	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6228	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5236	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6229	1-216-845-11	METAL CHIP	100K 5% 1/10W
R5237	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6230	1-216-845-11	METAL CHIP	100K 5% 1/10W
R5239	1-216-833-11	METAL CHIP	10K 5% 1/10W	R6231	1-218-879-91	RES CHIP	22K 0.5% 1/10W
R5240	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6232	1-216-864-11	SHORT CHIP	0
R5241	1-216-833-11	METAL CHIP	10K 5% 1/10W	R6236	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
R5242	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R6237	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
R5243	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6238	1-216-864-11	SHORT CHIP	0
R5244	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R6240	1-216-864-11	SHORT CHIP	0
R5245	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6244	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
R5246	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	R6246	1-218-839-11	METAL CHIP	470 0.5% 1/10W
R5247	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6247	1-216-864-11	SHORT CHIP	0

A H1 C

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

C F1

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
R6248	1-216-841-11	METAL CHIP	47K 5% 1/10W	< RESISTOR >			
R6249	1-216-841-11	METAL CHIP	47K 5% 1/10W	R0901	1-216-864-11	SHORT CHIP	0
R6250	1-216-841-11	METAL CHIP	47K 5% 1/10W	R0902	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R8005	1-216-809-11	METAL CHIP	100 5% 1/10W	R0911	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R8007	1-216-809-11	METAL CHIP	100 5% 1/10W	R0912	1-216-864-11	SHORT CHIP	0
R8008	1-216-809-11	METAL CHIP	100 5% 1/10W	R0913	1-216-833-11	METAL CHIP	10K 5% 1/10W
R8009	1-216-809-11	METAL CHIP	100 5% 1/10W	R0914	1-216-833-11	METAL CHIP	10K 5% 1/10W
R8010	1-216-809-11	METAL CHIP	100 5% 1/10W	R2901	1-249-406-11	CARBON	120 5% 1/4W
R8011	1-216-809-11	METAL CHIP	100 5% 1/10W	R2902	1-249-406-11	CARBON	120 5% 1/4W
R8012	1-216-809-11	METAL CHIP	100 5% 1/10W	R2903	1-249-406-11	CARBON	120 5% 1/4W
R8013	1-216-809-11	METAL CHIP	100 5% 1/10W	R2904	1-249-406-11	CARBON	120 5% 1/4W
R8014	1-216-809-11	METAL CHIP	100 5% 1/10W	R2909	1-216-853-11	METAL CHIP	470K 5% 1/10W
R8015	1-216-809-11	METAL CHIP	100 5% 1/10W	R2910	1-216-853-11	METAL CHIP	470K 5% 1/10W
R8016	1-216-809-11	METAL CHIP	100 5% 1/10W	R2917	1-216-821-11	METAL CHIP	1K 5% 1/10W
R8017	1-216-809-11	METAL CHIP	100 5% 1/10W	R2918	1-216-821-11	METAL CHIP	1K 5% 1/10W
< CRYSTAL >				< SWITCH >			
X2000	1-760-628-11	VIBRATOR, CRYSTAL		S0900	1-692-431-21	SWITCH, TACTILE	
A Board Variant Parts KV-32FQ85B				S0901	1-692-431-21	SWITCH, TACTILE	
< TUNER >				S0902	1-692-431-21	SWITCH, TACTILE	
TU1100	8-598-535-20	FRONTEND BTP-RF411		S0903	1-692-431-21	SWITCH, TACTILE	
A Board Variant Parts KV-32FQ85E				S0904	1-692-431-21	SWITCH, TACTILE	
< TUNER >				S0905	1-692-431-21	SWITCH, TACTILE	
TU1100	8-598-533-10	FRONTEND BTP-RC411		*A-1405-610-A C Board, Complete			
*A-1405-609-A H1 Board, Complete				4-382-854-01	SCREW (M3X8), P, SW (+)		
< CAPACITOR >				< CAPACITOR >			
C2904	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	C7300	1-136-189-00	MYLAR	0.1UF 10.00% 250V
C2906	1-126-960-11	ELECT	1UF 20.00% 50V	C7302	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2907	1-126-960-11	ELECT	1UF 20.00% 50V	C7303	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
C2931	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	C7306	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
< CONNECTOR >				C7310	1-136-189-00	MYLAR	0.1UF 10.00% 250V
CN2900	1-779-947-11	TERMINAL BLOCK, S		C7312	1-164-156-11	CERAMIC CHIP 0.1UF	25V
CN2911	*1-564-511-11	PLUG, CONNECTOR 8P		C7313	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
CN2912	*1-564-510-11	PLUG, CONNECTOR 7P		C7316	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
< DIODE >				C7320	1-136-189-00	MYLAR	0.1UF 10.00% 250V
D0901	8-719-109-89	DIODE RDS. 6RSB2		C7321	1-107-652-11	ELECT	100UF 20.00% 250V
D0908	8-719-109-89	DIODE RDS. 6RSB2		C7322	1-164-156-11	CERAMIC CHIP 0.1UF	25V
< SOCKET >				C7323	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
J2991	1-817-763-11	JACK		C7326	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
				C7330	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
				C7331	1-126-947-11	ELECT	47UF 20.00% 35V
				C7332	1-126-947-11	ELECT	47UF 20.00% 35V
				C7333	1-107-652-11	ELECT	100UF 20.00% 250V
				C7334	1-107-649-11	ELECT	2.2UF 20.00% 250V
				C7335	1-115-882-11	PERMANENT MAGNET	20.00% 250V
				C7336	1-115-350-51	CERAMIC	0.0047UF 2KV

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
< CONNECTOR >				JN7313	1-216-864-11	SHORT CHIP	0
CN7330	*1-564-508-11	PLUG, CONNECTOR 5P		JN7323	1-216-864-11	SHORT CHIP	0
CN7331	*1-564-512-11	PLUG, CONNECTOR 9P		R7300	1-216-821-11	METAL CHIP	1K 5% 1/10W
CN7332	1-695-915-11	TAB (CONTACT)		R7301	1-216-813-11	METAL CHIP	220 5% 1/10W
CN7333	1-695-915-11	TAB (CONTACT)		R7302	1-216-814-11	METAL CHIP	270 5% 1/10W
< DIODE >				R7303	1-216-813-11	METAL CHIP	220 5% 1/10W
D7300	8-719-901-83	DIODE 1SS83		R7304	1-216-813-11	METAL CHIP	220 5% 1/10W
D7301	8-719-901-83	DIODE 1SS83		R7306	1-216-864-11	SHORT CHIP	0
D7302	8-719-991-33	DIODE 1SS133T-77		R7307	1-247-807-31	CARBON	100 5% 1/4W
D7310	8-719-901-83	DIODE 1SS83		R7308	1-202-557-00	SOLID	220 20% 1/2W
D7311	8-719-901-83	DIODE 1SS83		R7310	1-216-821-11	METAL CHIP	1K 5% 1/10W
D7312	8-719-991-33	DIODE 1SS133T-77		R7311	1-216-813-11	METAL CHIP	220 5% 1/10W
D7320	8-719-901-83	DIODE 1SS83		R7312	1-216-814-11	METAL CHIP	270 5% 1/10W
D7321	8-719-901-83	DIODE 1SS83		R7313	1-216-813-11	METAL CHIP	220 5% 1/10W
D7322	8-719-991-33	DIODE 1SS133T-77		R7314	1-216-813-11	METAL CHIP	220 5% 1/10W
D7330	8-719-109-68	DIODE RDS. 6RSB1		R7316	1-216-864-11	SHORT CHIP	0
D7331	8-719-901-83	DIODE 1SS83		R7317	1-247-807-31	CARBON	100 5% 1/4W
< IC >				R7318	1-202-557-00	SOLID	220 20% 1/2W
IC7300	6-704-806-01	IC TDA6118JF		R7320	1-216-821-11	METAL CHIP	1K 5% 1/10W
IC7310	6-704-806-01	IC TDA6118JF		R7321	1-216-813-11	METAL CHIP	220 5% 1/10W
IC7320	6-704-806-01	IC TDA6118JF		R7322	1-216-814-11	METAL CHIP	270 5% 1/10W
< SOCKET >				R7323	1-216-813-11	METAL CHIP	220 5% 1/10W
J7330 Δ	1-451-544-11	SOCKET, CRT		R7324	1-216-813-11	METAL CHIP	220 5% 1/10W
< COIL >				R7326	1-216-864-11	SHORT CHIP	0
L7330	1-414-928-21	INDUCTOR	1UH	R7327	1-247-807-31	CARBON	100 5% 1/4W
L7331	1-414-928-21	INDUCTOR	1UH	R7328	1-202-557-00	SOLID	220 20% 1/2W
< PROTECTOR MODULE >				R7330	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
PS7332 Δ	1-532-637-00	IC LINK	1A 50V	R7331	1-247-903-00	CARBON	1M 5% 1/4W
< TRANSISTOR >				R7333	1-249-417-11	CARBON	1K 5% 1/4W
Q7300	8-729-025-25	TRANSISTOR BF550		R7334	1-249-417-11	CARBON	1K 5% 1/4W
Q7301	8-729-010-29	TRANSISTOR MSD601-RST1		R7335	1-247-735-11	CARBON	47 5% 1/2W
Q7302	8-729-200-17	TRANSISTOR 2SA1091-O		R7336	1-202-549-00	SOLID	100 20% 1/2W
Q7310	8-729-025-25	TRANSISTOR BF550		R7337	1-202-549-00	SOLID	100 20% 1/2W
Q7311	8-729-010-29	TRANSISTOR MSD601-RST1		R7340	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
Q7312	8-729-200-17	TRANSISTOR 2SA1091-O		R7350	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
Q7320	8-729-025-25	TRANSISTOR BF550		R7360	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
Q7321	8-729-010-29	TRANSISTOR MSD601-RST1		< RESISTOR VARIABLE >			
Q7322	8-729-200-17	TRANSISTOR 2SA1091-O		R77330	1-241-656-11	RES, ADJ, METAL FILM 110W	
Q7330	8-729-010-05	TRANSISTOR MSB709-RT1		*A-1405-611-A F1 Board, Complete			
< RESISTOR >				4-206-220-01	HOLDER, LEO		
JN7303	1-216-864-11	SHORT CHIP	0	< CAPACITOR >			



Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

F1 J

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REF.NO.	PART.NO.	DESCRIPTION	REMARK
< CONNECTOR >			
CR698	*1-564-507-11	PLUG, CONNECTOR 4P	
CR6400 Δ	*1-560-843-11	PIN, CONNECTOR (POWER)	
CR6401 Δ	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
CR6403	1-695-915-11	TAB (CONTACT)	
< DIODE >			
D0961	8-719-109-69	DIODE RDS.6ESB2	
D0963	8-719-082-12	DIODE TLAK5190	
< FUSE >			
F6400 Δ	1-576-232-12	FUSE 5A 250V	
F6400 Δ	1-533-725-11	FUSE HOLDER	
< IC >			
IC6981	6-704-532-01	IC RPN7240-B5	
< RESISTOR >			
R0962	1-247-807-31	CARBON 100 5% 1/4W	
R6400 Δ	1-202-719-00	SOLID 1M 10% 1/2W	
< SWITCH >			
S6400 Δ	1-571-433-21	SWITCH, FUSE (AC POWER)	
< VARISTOR >			
V6400 Δ	1-804-995-11	VARISTOR	
*A-1405-623-A J Board, Complete			
< CAPACITOR >			
C2624	1-164-227-11	CERAMIC CHIP 0.022UF 10.00% 25V	
C2625	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C2626	1-164-227-11	CERAMIC CHIP 0.022UF 10.00% 25V	
C2627	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C2628	1-165-908-11	CERAMIC CHIP 1UF 10% 10V	
C2629	1-165-908-11	CERAMIC CHIP 1UF 10% 10V	
C2630	1-126-947-11	ELECT 47UF 20.00% 35V	
C2631	1-126-947-11	ELECT 47UF 20.00% 35V	
C2632	1-125-837-91	CERAMIC CHIP 1UF 10% 6.3V	
C2633	1-125-837-91	CERAMIC CHIP 1UF 10% 6.3V	
C2634	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C2635	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C2636	1-216-864-11	SHORT CHIP 0	
C2620	1-164-227-11	CERAMIC CHIP 0.022UF 10.00% 25V	
C2622	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C2622	1-164-227-11	CERAMIC CHIP 0.022UF 10.00% 25V	
C2623	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C2624	1-165-908-11	CERAMIC CHIP 1UF 10% 10V	

REF.NO.	PART.NO.	DESCRIPTION	REMARK
C2625	1-165-908-11	CERAMIC CHIP 1UF 10% 10V	
C2626	1-126-947-11	ELECT 47UF 20.00% 35V	
C2627	1-126-947-11	ELECT 47UF 20.00% 35V	
C2628	1-216-864-11	SHORT CHIP 0	
C2632	1-164-227-11	CERAMIC CHIP 0.022UF 10.00% 25V	
C2633	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C2634	1-164-227-11	CERAMIC CHIP 0.022UF 10.00% 25V	
C2635	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C2636	1-165-908-11	CERAMIC CHIP 1UF 10% 10V	
C2637	1-165-908-11	CERAMIC CHIP 1UF 10% 10V	
C2638	1-126-947-11	ELECT 47UF 20.00% 35V	
C2639	1-126-947-11	ELECT 47UF 20.00% 35V	
C2655	1-165-908-11	CERAMIC CHIP 1UF 10% 10V	
C2656	1-165-908-11	CERAMIC CHIP 1UF 10% 10V	
C2657	1-162-923-11	CERAMIC CHIP 47PF 5.00% 50V	
C2658	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C2659	1-126-964-11	ELECT 10UF 20.00% 50V	
C2660	1-126-947-11	ELECT 47UF 20.00% 35V	
C3608	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C3609	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C3610	1-126-947-11	ELECT 47UF 20.00% 35V	
C3616	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C3617	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C3618	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C3619	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C3620	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C3621	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C3622	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C3623	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C3624	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C3625	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C3626	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C3627	1-126-964-11	ELECT 10UF 20.00% 50V	
C3631	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C3632	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C3634	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C3636	1-126-947-11	ELECT 47UF 20.00% 35V	
C3641	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C3642	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C3643	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C3644	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C3645	1-126-947-11	ELECT 47UF 20.00% 35V	
C3646	1-126-947-11	ELECT 47UF 20.00% 35V	
C3647	1-126-947-11	ELECT 47UF 20.00% 35V	
C3648	1-126-947-11	ELECT 47UF 20.00% 35V	
< CONNECTOR >			
CN3600	*1-564-523-11	PLUG, CONNECTOR 8P	
CN3601	1-695-549-11	SOCKET, PIN 21P	
CN3602	1-695-549-11	SOCKET, PIN 21P	

REF.NO.	PART.NO.	DESCRIPTION	REMARK
CN3603	1-695-549-11	SOCKET, PIN 21P	
CN3604	1-817-114-11	CONNECTOR, BOARD TO BOARD 35P	
< DIODE >			
D0600	8-719-069-55	DIODE UDSTE-175.6B	
D2600	8-719-069-60	DIODE UDSTE-179.1B	
D2601	8-719-069-60	DIODE UDSTE-179.1B	
D2602	8-719-069-60	DIODE UDSTE-179.1B	
D2603	8-719-069-60	DIODE UDSTE-179.1B	
D2604	8-719-069-60	DIODE UDSTE-179.1B	
D2605	8-719-069-60	DIODE UDSTE-179.1B	
D2606	8-719-069-60	DIODE UDSTE-179.1B	
D2607	8-719-069-60	DIODE UDSTE-179.1B	
D2608	8-719-069-60	DIODE UDSTE-179.1B	
D2609	8-719-069-60	DIODE UDSTE-179.1B	
D2610	8-719-069-60	DIODE UDSTE-179.1B	
D2611	8-719-069-60	DIODE UDSTE-179.1B	
D3602	8-719-069-60	DIODE UDSTE-179.1B	
D3606	8-719-069-60	DIODE UDSTE-179.1B	
D3614	8-719-083-63	DIODE UDSTE-171.3B	
D3615	8-719-069-60	DIODE UDSTE-179.1B	
D3616	8-719-069-60	DIODE UDSTE-179.1B	
D3617	8-719-069-60	DIODE UDSTE-179.1B	
D3621	8-719-083-63	DIODE UDSTE-171.3B	
D3622	8-719-069-55	DIODE UDSTE-175.6B	
D3623	8-719-069-60	DIODE UDSTE-179.1B	
D3624	8-719-069-60	DIODE UDSTE-179.1B	
D3626	8-719-069-60	DIODE UDSTE-179.1B	
D3627	8-719-083-63	DIODE UDSTE-171.3B	
D3628	8-719-083-63	DIODE UDSTE-171.3B	
D3629	8-719-069-60	DIODE UDSTE-179.1B	
D3630	8-719-069-60	DIODE UDSTE-179.1B	
D3631	8-719-069-55	DIODE UDSTE-175.6B	
D3632	8-719-069-60	DIODE UDSTE-179.1B	
D3633	8-719-069-60	DIODE UDSTE-179.1B	
D3634	8-719-069-60	DIODE UDSTE-179.1B	
D3635	8-719-069-60	DIODE UDSTE-179.1B	
< IC >			
IC3600	8-752-096-83	IC CXA2149AQ-TL	
< COIL >			
L2602	1-414-928-21	INDUCTOR 10H	
L3611	1-414-928-21	INDUCTOR 10H	
L3612	1-414-928-21	INDUCTOR 10H	
L3614	1-414-928-21	INDUCTOR 10H	
< TRANSISTOR >			
Q2602	8-729-010-29	TRANSISTOR MSD601-RST1	

REF.NO.	PART.NO.	DESCRIPTION	REMARK
Q2603	8-729-010-29	TRANSISTOR MSD601-RST1	
Q2604	8-729-010-29	TRANSISTOR MSD601-RST1	
Q3656	8-729-010-29	TRANSISTOR MSD601-RST1	
Q3657	8-729-010-29	TRANSISTOR MSD601-RST1	
Q3658	8-729-010-29	TRANSISTOR MSD601-RST1	
< RESISTOR >			
JR2616	1-216-864-11	SHORT CHIP 0	
JR2617	1-216-864-11	SHORT CHIP 0	
JR2618	1-216-864-11	SHORT CHIP 0	
JR2628	1-216-864-11	SHORT CHIP 0	
R0800	1-216-809-11	METAL CHIP 100 5% 1/10W	
R0801	1-216-809-11	METAL CHIP 100 5% 1/10W	
R0802	1-216-025-11	RES-CHIP 100 5% 1/10W	
R2600	1-216-815-11	METAL CHIP 330 5% 1/10W	
R2601	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R2602	1-216-815-11	METAL CHIP 330 5% 1/10W	
R2603	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R2604	1-216-813-11	METAL CHIP 220 5% 1/10W	
R2605	1-216-864-11	SHORT CHIP 0	
R2606	1-216-813-11	METAL CHIP 220 5% 1/10W	
R2607	1-216-864-11	SHORT CHIP 0	
R2608	1-216-853-11	METAL CHIP 470K 5% 1/10W	
R2609	1-216-853-11	METAL CHIP 470K 5% 1/10W	
R2610	1-216-853-11	METAL CHIP 470K 5% 1/10W	
R2611	1-216-853-11	METAL CHIP 470K 5% 1/10W	
R2612	1-216-813-11	METAL CHIP 220 5% 1/10W	
R2613	1-216-813-11	METAL CHIP 220 5% 1/10W	
R2614	1-216-864-11	SHORT CHIP 0	
R2615	1-216-864-11	SHORT CHIP 0	
R2616	1-216-864-11	SHORT CHIP 0	
R2617	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R2618	1-216-864-11	SHORT CHIP 0	
R2619	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R2620	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R2621	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R2622	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R2623	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R2624	1-216-815-11	METAL CHIP 330 5% 1/10W	
R2625	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R2626	1-216-815-11	METAL CHIP 330 5% 1/10W	
R2627	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R2628	1-216-864-11	SHORT CHIP 0	
R2630	1-216-864-11	SHORT CHIP 0	
R2632	1-216-853-11	METAL CHIP 470K 5% 1/10W	
R2633	1-216-853-11	METAL CHIP 470K 5% 1/10W	
R2634	1-216-853-11	METAL CHIP 470K 5% 1/10W	
R2635	1-216-853-11	METAL CHIP 470K 5% 1/10W	
R2637	1-216-049-11	RES-CHIP 1K 5% 1/10W	

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK	
R2638	1-216-815-11	METAL CHIP	330 5A 1/10W	R3647	1-216-864-11	SHORT CHIP	0	C66	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	
R2639	1-216-049-11	RES-CHIP	1K 5A 1/10W	R3652	1-216-821-11	METAL CHIP	1K 5A 1/10W	C67	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	
R2640	1-216-813-11	METAL CHIP	220 5A 1/10W	R3653	1-216-841-11	METAL CHIP	47K 5A 1/10W	C68	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	
R2642	1-216-813-11	METAL CHIP	220 5A 1/10W	R3654	1-216-837-11	METAL CHIP	22K 5A 1/10W	C69	1-162-928-11	CERAMIC CHIP 120PF	5.00% 50V	
R2644	1-216-853-11	METAL CHIP	470K 5A 1/10W	R3655	1-216-837-11	METAL CHIP	22K 5A 1/10W	C70	1-164-392-11	CERAMIC CHIP 390PF	5.00% 50V	
R2645	1-216-853-11	METAL CHIP	470K 5A 1/10W	R3656	1-216-821-11	METAL CHIP	1K 5A 1/10W	C71	1-164-739-11	CERAMIC CHIP 560PF	5.00% 50V	
R2646	1-216-853-11	METAL CHIP	470K 5A 1/10W	R3657	1-216-841-11	METAL CHIP	47K 5A 1/10W	C72	1-162-928-11	CERAMIC CHIP 120PF	5.00% 50V	
R2647	1-216-853-11	METAL CHIP	470K 5A 1/10W	R3658	1-216-837-11	METAL CHIP	22K 5A 1/10W	C73	1-164-392-11	CERAMIC CHIP 390PF	5.00% 50V	
R2648	1-216-821-11	METAL CHIP	1K 5A 1/10W	R3659	1-216-821-11	METAL CHIP	1K 5A 1/10W	C74	1-164-739-11	CERAMIC CHIP 560PF	5.00% 50V	
R2649	1-216-837-11	METAL CHIP	22K 5A 1/10W	R3660	1-216-841-11	METAL CHIP	47K 5A 1/10W	C75	1-162-928-11	CERAMIC CHIP 120PF	5.00% 50V	
R2650	1-216-837-11	METAL CHIP	22K 5A 1/10W	R3661	1-216-827-11	METAL CHIP	3.3K 5A 1/10W	C76	1-164-392-11	CERAMIC CHIP 390PF	5.00% 50V	
R3600	1-216-022-00	RES-CHIP	75 5A 1/10W	R3662	1-216-827-11	METAL CHIP	3.3K 5A 1/10W	C77	1-164-739-11	CERAMIC CHIP 560PF	5.00% 50V	
R3601	1-216-022-00	RES-CHIP	75 5A 1/10W	*A-1410-247-A MS Board, Complete				C78	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	
R3602	1-216-022-00	RES-CHIP	75 5A 1/10W					C79	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	
R3603	1-216-022-00	RES-CHIP	75 5A 1/10W					C80	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	
R3604	1-216-022-00	RES-CHIP	75 5A 1/10W					C81	1-162-909-11	CERAMIC CHIP 4PF	0.25PF 50V	
R3605	1-216-025-11	RES-CHIP	100 5A 1/10W					C82	1-162-909-11	CERAMIC CHIP 4PF	0.25PF 50V	
R3607	1-216-025-11	RES-CHIP	100 5A 1/10W					C84	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	
R3608	1-216-025-11	RES-CHIP	100 5A 1/10W					C85	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	
R3609	1-216-025-11	RES-CHIP	100 5A 1/10W					C86	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	
R3610	1-216-025-11	RES-CHIP	100 5A 1/10W					C89	1-124-778-00	ELECT CHIP	220UF	20.00% 6.3V
R3611	1-216-022-00	RES-CHIP	75 5A 1/10W	C19	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C90	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	
R3612	1-216-025-11	RES-CHIP	100 5A 1/10W	C20	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C91	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	
R3613	1-216-022-00	RES-CHIP	75 5A 1/10W	C21	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C92	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	
R3614	1-216-025-11	RES-CHIP	100 5A 1/10W	C22	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C93	1-124-778-00	ELECT CHIP	220UF	20.00% 6.3V
R3615	1-216-022-00	RES-CHIP	75 5A 1/10W	C23	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C94	1-124-778-00	ELECT CHIP	220UF	20.00% 6.3V
R3616	1-216-022-00	RES-CHIP	75 5A 1/10W	C24	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C97	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	
R3617	1-216-022-00	RES-CHIP	75 5A 1/10W	C25	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C99	1-162-916-11	CERAMIC CHIP 12PF	5.00% 50V	
R3618	1-216-022-00	RES-CHIP	75 5A 1/10W	C26	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C100	1-162-916-11	CERAMIC CHIP 12PF	5.00% 50V	
R3619	1-216-025-11	RES-CHIP	100 5A 1/10W	C27	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C110	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	
R3621	1-216-025-11	RES-CHIP	100 5A 1/10W	C28	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C111	1-164-156-11	CERAMIC CHIP 0.10UF	25V	
R3622	1-216-025-11	RES-CHIP	100 5A 1/10W	C29	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C112	1-164-156-11	CERAMIC CHIP 0.10UF	25V	
R3623	1-216-025-11	RES-CHIP	100 5A 1/10W	C30	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C113	1-164-156-11	CERAMIC CHIP 0.10UF	25V	
R3624	1-216-022-00	RES-CHIP	75 5A 1/10W	C31	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C115	1-164-156-11	CERAMIC CHIP 0.10UF	25V	
R3625	1-216-025-11	RES-CHIP	100 5A 1/10W	C32	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C116	1-164-156-11	CERAMIC CHIP 0.10UF	25V	
R3626	1-216-022-00	RES-CHIP	75 5A 1/10W	C33	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C169	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	
R3627	1-216-022-00	RES-CHIP	75 5A 1/10W	C34	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C174	1-124-778-00	ELECT CHIP	220UF	20.00% 6.3V
R3628	1-216-022-00	RES-CHIP	75 5A 1/10W	C35	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C175	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	
R3629	1-216-022-00	RES-CHIP	75 5A 1/10W	C36	1-126-187-11	ELECT CHIP	0.10UF	C176	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	
R3630	1-216-025-11	RES-CHIP	100 5A 1/10W	C37	1-126-204-11	ELECT CHIP	470UF	C177	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	
R3631	1-216-809-11	METAL CHIP	100 5A 1/10W	C38	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C178	1-164-156-11	CERAMIC CHIP 0.10UF	25V	
R3632	1-216-809-11	METAL CHIP	100 5A 1/10W	C39	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C179	1-165-884-91	CERAMIC CHIP 2.2UF	10% 6.3V	
R3634	1-216-022-00	RES-CHIP	75 5A 1/10W	C40	1-124-778-00	ELECT CHIP	220UF	C180	1-165-884-91	CERAMIC CHIP 2.2UF	10% 6.3V	
R3635	1-216-025-11	RES-CHIP	100 5A 1/10W	C41	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C181	1-165-884-91	CERAMIC CHIP 2.2UF	10% 6.3V	
R3636	1-216-025-11	RES-CHIP	100 5A 1/10W	C42	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C182	1-165-884-91	CERAMIC CHIP 2.2UF	10% 6.3V	
R3637	1-216-022-00	RES-CHIP	75 5A 1/10W	C43	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C201	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	
R3638	1-216-025-11	RES-CHIP	100 5A 1/10W	C44	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	C202	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V	
R3639	1-216-843-11	METAL CHIP	68K 5A 1/10W	C45	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V					
R3641	1-216-843-11	METAL CHIP	68K 5A 1/10W	C46	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V					
R3643	1-216-885-11	METAL CHIP	39K 0.5A 1/10W	C47	1-107-826-11	CERAMIC CHIP 0.10UF	10.00% 16V					
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CN1	*1-794-959-21	PIN, CONNECTOR (FMS, PRINT)20P										
CN3	*1-816-402-12	CONNECTOR, MEMORY STICK										
< DIODE >												
D6	6-500-773-01	DIODE NRA4003T3										
D7	6-500-773-01	DIODE NRA4003T3										
D8	6-500-773-01	DIODE NRA4003T3										
D11	8-719-058-71	DIODE LMJ208RBARA										
D13	8-719-058-71	DIODE LMJ208RBARA										
D14	8-719-083-58	DIODE UD1STE-173.9B										
D15	8-719-083-58	DIODE UD1STE-173.9B										
D16	8-719-083-58	DIODE UD1STE-173.9B										
D17	8-719-083-58	DIODE UD1STE-173.9B										
D20	8-719-421-69	DIODE MA133										
D21	8-719-421-69	DIODE MA133										
D22	8-719-421-69	DIODE MA133										
D23	8-719-421-69	DIODE MA133										
D026	8-719-069-60	DIODE UD1STE-179.1B										
D027	8-719-069-60	DIODE UD1STE-179.1B										
D028	8-719-069-60	DIODE UD1STE-179.1B										
D029	8-719-069-60	DIODE UD1STE-179.1B										
D030	8-719-069-60	DIODE UD1STE-179.1B										
D031	8-719-069-60	DIODE UD1STE-179.1B										
D032	8-719-066-11	DIODE 1P5184-115										
D033	6-500-028-01	DIODE MM329V1ST1										
< FERRITE BEAD >												
FB001	1-414-229-11	FERRITE 00H										
FB002	1-414-229-11	FERRITE 00H										
FB006	1-414-229-11	FERRITE 00H										
< FILTER >												
FL001	1-233-736-21	FILTER, EMI										
FL002	1-233-736-21	FILTER, EMI										
FL003	1-233-736-21	FILTER, EMI										
FL005	1-233-736-21	FILTER, EMI										
FL006	1-233-736-21	FILTER, EMI										
< IC >												
IC1	6-705-171-01	IC PMX1300EH										
IC3	6-702-511-01	IC MT48LC9M16A2TG-75-Y95W										
IC4	6-705-173-01	IC PCF85116-3T										
IC5	6-704-866-01	IC DS1233AZ-15										
IC8	8-759-657-99	IC AM29LV160DT-90BC										
IC11	6-705-172-01	IC P87LPC762-7										
IC12	8-759-548-95	IC SN74LV00APWR										
IC15	6-705-170-01	IC SAA7129AR/V1										



REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
< COIL >							
L1	1-469-525-91	INDUCTOR	10UH	R68	1-216-864-11	SHORT CHIP	0
L2	1-469-528-91	INDUCTOR	100UH	R94	1-216-864-11	SHORT CHIP	0
L3	1-469-525-91	INDUCTOR	10UH	R95	1-216-809-11	METAL CHIP	100 5% 1/10W
L4	1-469-525-91	INDUCTOR	10UH	R96	1-216-809-11	METAL CHIP	100 5% 1/10W
L5	1-469-525-91	INDUCTOR	10UH	R100	1-216-801-11	METAL CHIP	22 5% 1/10W
L6	1-469-525-91	INDUCTOR	10UH	R103	1-216-821-11	METAL CHIP	1K 5% 1/10W
L7	1-469-528-91	INDUCTOR	100UH	R104	1-218-285-11	METAL CHIP	75 5% 1/10W
L8	1-412-984-41	INDUCTOR	2.7UH	R107	1-216-864-11	SHORT CHIP	0
L9	1-412-984-41	INDUCTOR	2.7UH	R108	1-216-864-11	SHORT CHIP	0
L10	1-412-984-41	INDUCTOR	2.7UH	R109	1-216-813-11	METAL CHIP	220 5% 1/10W
L11	1-412-984-41	INDUCTOR	2.7UH	R110	1-218-285-11	METAL CHIP	75 5% 1/10W
L12	1-412-984-41	INDUCTOR	2.7UH	R111	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
L13	1-412-984-41	INDUCTOR	2.7UH	R114	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
L23	1-410-197-11	INDUCTOR	2.7UH	R115	1-216-797-11	METAL CHIP	10 5% 1/10W
				R116	1-216-797-11	METAL CHIP	10 5% 1/10W
< TRANSISTOR >				R117	1-218-285-11	METAL CHIP	75 5% 1/10W
Q2	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R120	1-216-864-11	SHORT CHIP	0
Q3	1-801-806-11	TRANSISTOR DTC144BKA		R121	1-216-864-11	SHORT CHIP	0
Q4	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R123	1-216-857-11	METAL CHIP	1M 5% 1/10W
Q5	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R124	1-216-864-11	SHORT CHIP	0
< RESISTOR >				R126	1-216-864-11	SHORT CHIP	0
R17	1-216-864-11	SHORT CHIP	0	R128	1-216-864-11	SHORT CHIP	0
R18	1-216-864-11	SHORT CHIP	0	R138	1-216-801-11	METAL CHIP	22 5% 1/10W
R19	1-216-833-11	METAL CHIP	10K 5% 1/10W	R139	1-216-801-11	METAL CHIP	22 5% 1/10W
R20	1-216-833-11	METAL CHIP	10K 5% 1/10W	R141	1-216-801-11	METAL CHIP	22 5% 1/10W
R21	1-216-833-11	METAL CHIP	10K 5% 1/10W	R173	1-216-803-11	METAL CHIP	33 5% 1/10W
R22	1-216-804-11	METAL CHIP	39 5% 1/10W	R175	1-216-803-11	METAL CHIP	33 5% 1/10W
R23	1-216-809-11	METAL CHIP	100 5% 1/10W	R176	1-216-803-11	METAL CHIP	33 5% 1/10W
R25	1-216-803-11	METAL CHIP	33 5% 1/10W	R177	1-216-864-11	SHORT CHIP	0
R35	1-216-833-11	METAL CHIP	10K 5% 1/10W	R178	1-216-864-11	SHORT CHIP	0
R39	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R179	1-216-864-11	SHORT CHIP	0
R40	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R180	1-216-864-11	SHORT CHIP	0
R41	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R181	1-216-864-11	SHORT CHIP	0
R42	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R182	1-216-864-11	SHORT CHIP	0
R43	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R183	1-216-809-11	METAL CHIP	100 5% 1/10W
R44	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R185	1-216-833-11	METAL CHIP	10K 5% 1/10W
R45	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R186	1-216-801-11	METAL CHIP	22 5% 1/10W
R46	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R199	1-216-809-11	METAL CHIP	100 5% 1/10W
R52	1-216-833-11	METAL CHIP	10K 5% 1/10W	R222	1-216-864-11	SHORT CHIP	0
R54	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R223	1-216-864-11	SHORT CHIP	0
R57	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R224	1-216-864-11	SHORT CHIP	0
R58	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R228	1-216-845-11	METAL CHIP	100K 5% 1/10W
R59	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R229	1-216-821-11	METAL CHIP	1K 5% 1/10W
R63	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R230	1-216-833-11	METAL CHIP	10K 5% 1/10W
R64	1-216-864-11	SHORT CHIP	0	R231	1-216-821-11	METAL CHIP	1K 5% 1/10W
R65	1-216-864-11	SHORT CHIP	0	R350	1-216-864-11	SHORT CHIP	0
				R351	1-216-864-11	SHORT CHIP	0
				R400	1-216-809-11	METAL CHIP	100 5% 1/10W
				R401	1-216-864-11	SHORT CHIP	0
				R402	1-216-864-11	SHORT CHIP	0

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
R403	1-216-864-11	SHORT CHIP	0	C9402	1-164-156-11	CERAMIC CHIP 0.1UF	25V
R405	1-216-864-11	SHORT CHIP	0	C9403	1-107-826-11	CERAMIC CHIP 0.1UF	10.00K 16V
R459	1-216-864-11	SHORT CHIP	0	C9404	1-107-636-11	ELECT	10UF 20.00K 160V
R460	1-216-805-11	METAL CHIP	47 5% 1/10W	C9406	1-161-830-00	CERAMIC	0.0047UF 500V
R461	1-216-864-11	SHORT CHIP	0	C9407	1-164-156-11	CERAMIC CHIP 0.1UF	25V
R462	1-216-864-11	SHORT CHIP	0	C9408	1-126-964-11	ELECT	100F 20.00K 50V
R463	1-216-864-11	SHORT CHIP	0	C9409	1-107-636-11	ELECT	100F 20.00K 160V
R464	1-216-864-11	SHORT CHIP	0	C9410	1-137-528-11	MYLAR	0.1UF 10.00K 250V
R468	1-216-864-11	SHORT CHIP	0	C9411	1-107-826-11	CERAMIC CHIP 0.1UF	10.00K 16V
R469	1-216-864-11	SHORT CHIP	0	C9412	1-137-528-11	MYLAR	0.1UF 10.00K 250V
R470	1-216-864-11	SHORT CHIP	0	C9413	1-107-826-11	CERAMIC CHIP 0.1UF	10.00K 16V
R478	1-216-864-11	SHORT CHIP	0	C9414	1-117-450-11	MYLAR	0.47UF 10.00K 250V
R479	1-216-864-11	SHORT CHIP	0	< CONNECTOR >			
R480	1-216-864-11	SHORT CHIP	0	CN9401	*1-564-510-11	PLUG, CONNECTOR 7P	
R485	1-216-864-11	SHORT CHIP	0	CN9402	*1-564-506-11	PLUG, CONNECTOR 3P	
R487	1-216-864-11	SHORT CHIP	0	CN9403	*1-770-723-11	CONNECTOR, BOARD TO BOARD 8P	
R488	1-216-864-11	SHORT CHIP	0	< COIL >			
R489	1-216-821-11	METAL CHIP	1K 5% 1/10W	L9401	1-414-928-21	INDUCTOR	1UH
R491	1-216-805-11	METAL CHIP	47 5% 1/10W	L9402	1-414-928-21	INDUCTOR	1UH
R492	1-216-864-11	SHORT CHIP	0	< TRANSISTOR >			
< RESISTOR CHIP >				Q9401	8-729-010-29	TRANSISTOR MSD601-RS1	
R81	1-239-409-11	NETWORK RESISTOR (CHIP)	47	Q9402	8-729-010-29	TRANSISTOR MSD601-RS1	
R82	1-239-409-11	NETWORK RESISTOR (CHIP)	47	Q9403	8-729-010-29	TRANSISTOR MSD601-RS1	
R83	1-239-409-11	NETWORK RESISTOR (CHIP)	47	Q9404	8-729-010-05	TRANSISTOR MSB709-RT1	
R88	1-239-409-11	NETWORK RESISTOR (CHIP)	47	Q9405	8-729-010-29	TRANSISTOR MSD601-RS1	
R89	1-239-409-11	NETWORK RESISTOR (CHIP)	47	Q9406	8-729-010-05	TRANSISTOR MSB709-RT1	
RB10	1-239-409-11	NETWORK RESISTOR (CHIP)	47	Q9407	8-729-010-29	TRANSISTOR MSD601-RS1	
RB11	1-239-409-11	NETWORK RESISTOR (CHIP)	47	Q9408	8-729-010-05	TRANSISTOR MSB709-RT1	
RB12	1-239-409-11	NETWORK RESISTOR (CHIP)	47	Q9409	8-729-010-29	TRANSISTOR MSD601-RS1	
RB13	1-239-409-11	NETWORK RESISTOR (CHIP)	47	Q9410	8-729-010-05	TRANSISTOR MSB709-RT1	
RB14	1-239-409-11	NETWORK RESISTOR (CHIP)	47	Q9411	8-729-045-05	TRANSISTOR 2SA2005	
RB15	1-239-409-11	NETWORK RESISTOR (CHIP)	47	Q9412	8-729-045-04	TRANSISTOR 2SC5511	
RB16	1-239-409-11	NETWORK RESISTOR (CHIP)	47	Q9413	8-729-010-29	TRANSISTOR MSD601-RS1	
RB17	1-239-409-11	NETWORK RESISTOR (CHIP)	47	Q9414	8-729-010-05	TRANSISTOR MSB709-RT1	
RB18	1-239-409-11	NETWORK RESISTOR (CHIP)	47	< RESISTOR >			
RB19	1-239-409-11	NETWORK RESISTOR (CHIP)	47	R9401	1-249-381-11	CARBON	1 5% 1/4W
RB20	1-239-409-11	NETWORK RESISTOR (CHIP)	47	R9402	1-216-820-11	METAL CHIP	820 5% 1/10W
RB21	1-239-409-11	NETWORK RESISTOR (CHIP)	47	R9403	1-216-819-11	METAL CHIP	680 5% 1/10W
< CRYSTAL >				R9404	1-216-834-11	METAL CHIP	12K 5% 1/10W
X1	1-813-136-11	CMOS OSCILLATOR UNIT (33.333MHZ)		R9405	1-216-839-11	METAL CHIP	33K 5% 1/10W
X2	1-813-055-11	QUARTZ CRYSTAL UNIT		R9406	1-216-805-11	METAL CHIP	47 5% 1/10W
X3	1-813-137-11	CRYSTAL UNIT, QUARTZ (10MHZ)		R9408	1-216-815-11	METAL CHIP	330 5% 1/10W
*A-1405-620-A VM Board, Complete				R9409	1-216-805-11	METAL CHIP	47 5% 1/10W
4-382-854-01 SCREEN (M3X8), P, SW (+)				R9410	1-216-805-11	METAL CHIP	47 5% 1/10W
< CAPACITOR >				R9411	1-249-393-11	CARBON	10 5% 1/4W
C9401	1-126-947-11	ELECT	47UF 20.00K 35V				

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.



REF.NO.	PART.NO.	DESCRIPTION	REMARK
R9412	1-249-393-11	CARBON	10 5Δ 1/4W
R9413	1-249-393-11	CARBON	10 5Δ 1/4W
R9414	1-249-393-11	CARBON	10 5Δ 1/4W
R9415	1-249-393-11	CARBON	10 5Δ 1/4W
R9416	1-249-393-11	CARBON	10 5Δ 1/4W
R9417	1-249-393-11	CARBON	10 5Δ 1/4W
R9418	1-249-393-11	CARBON	10 5Δ 1/4W
R9419	1-216-839-11	METAL CHIP	33K 5Δ 1/10W
R9420	1-216-821-11	METAL CHIP	1K 5Δ 1/10W
R9421	1-216-801-11	METAL CHIP	22 5Δ 1/10W
R9422	1-216-801-11	METAL CHIP	22 5Δ 1/10W
R9423	1-216-821-11	METAL CHIP	1K 5Δ 1/10W
R9424	1-216-839-11	METAL CHIP	33K 5Δ 1/10W
R9425	1-243-572-21	METAL CHISE	470 5Δ 2W
R9426	1-216-839-11	METAL CHIP	33K 5Δ 1/10W
R9427	1-216-839-11	METAL CHIP	33K 5Δ 1/10W
R9429	1-216-821-11	METAL CHIP	1K 5Δ 1/10W
R9430	1-216-809-11	METAL CHIP	100 5Δ 1/10W
R9431	1-216-809-11	METAL CHIP	100 5Δ 1/10W
R9432	1-216-817-11	METAL CHIP	470 5Δ 1/10W
R9433	1-216-817-11	METAL CHIP	470 5Δ 1/10W

## MISCELLANEOUS

Δ	1-571-433-21	SWITCH, PUSH (AC POWER)
Δ	1-783-083-11	CORD, POWER (WITH FILTER)
	1-424-855-11	COIL, CHOKE 2900Ω
	8-598-535-20	FRONT END BTP-BF411 (KV-32PQ85B)
	8-598-533-10	FRONT END BTP-BC411 (KV-32PQ85B)
Δ	1-453-444-21	TRANSFORMER ASSY, FLATBACK (RX-6020/12B4)
	1-529-408-11	SPEAKER (4.2X24CM)
	1-529-417-11	SPEAKER (8CM)
Δ	1-451-400-22	DEFLECTION YOK (Y32RVC2)
	1-419-363-11	COIL, HA ROTATION
Δ	8-453-011-11	BACK ASSY, (RA299-M)
Δ	1-424-008-11	COIL, DEMODULING
Δ	1-251-946-11	CAP ASSY, HIGH-VOLTAGE
Δ	8-735-078-05	PICTURE TUBE (W76L36A01)
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø
	1-452-032-00	MAGNET, DISK; 10MM Ø

## ACCESSORIES AND PACKAGING MATERIALS

*4-046-772-01	BAG, PROTECTION
*4-087-534-01	INDIVIDUAL CARTON
*4-094-270-02	CUSHION UPPER
*4-094-271-01	CUSHION LOWER
4-096-070-11	INSTRUCTION MANUAL (KV-32PQ85B) (GERMAN/GREEK/TURKISH)
4-096-070-21	INSTRUCTION MANUAL (KV-32PQ85B) (ITALIAN)
4-096-070-31	INSTRUCTION MANUAL (KV-32PQ85B) (DANISH/SPANISH/FINNISH/NORWEGIAN/ PORTUGUESE/SWEDISH)
4-096-070-41	INSTRUCTION MANUAL (KV-32PQ85B) (GERMAN/FRENCH/ITALIAN/DUTCH)

## REMOTE COMMANDER

1-478-231-11	REMOTE COMMANDER (RM-942)
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# TRACE

A new TV Repair Assistance Tool that combines ease of use and powerful PC software tools to allow you to save valuable time during many TV repairs.



The TRACE interface connects to the PC's serial port. It provides connection to the TV's I<sup>2</sup>C bus and can be provided with an InfraRed transmitter (optional).

The interface is powered by a standard 9 V PP3 battery for portable use, and can also be powered by an external 9V/25mA DC power supply.

The TRACE software that is supplied with the interface allows you to:

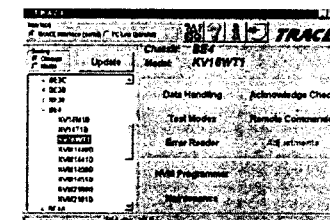
- Read, restore and compare NVM contents via the I<sup>2</sup>C bus
- Acknowledge check of all I<sup>2</sup>C devices in the TV set
- Read Error Codes (emulation of the Error Reader tool)

With the optional IR Add-on kit, the following features can be added:

- Remote Commander emulation
- User programmable Functional Check through Infrared
- Fast and documented Test Mode setting of all Sony TV chassis

Additional features such as Adjustments and Troubleshooting are available in chassis-dependent software modules. Please contact your local Sony Service organisation for the latest information.

Note: For workshops already using the existing I<sup>2</sup>C Link parallel port interface (9-948-320-30), this software can be used as well, replacing the TV Data Handling software (9-948-340-50), but Error Reader and IR functions can only be accessed with the TRACE interface.



Partnumbers:	TRACE Starter Kit (TRACE interface + software):	9-948-320-70
	TRACE Software (for users of the I <sup>2</sup> C Link interface):	9-948-340-80
	TRACE IR Add-on (IR interface + Remote Commander software):	9-948-320-80

PC requirements: IBM-compatible PC with operating system Windows95, Windows98, or WindowsNT\*.

\* WindowsNT only supported with TRACE interface

Sony Corporation  
Sony UK  
Service Promotions Dept.

English  
03IP7100-1  
Printed in U.K.  
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